Connecting via Winsock to STN

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SINCE FILE ENTRY 1.89

FILE 'HOME' ENTERED AT 08:49:08 ON 09 JUN 2004

=> file caplus biosis embase scisearch COST IN U.S. DOLLARS

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 08:54:42 ON 09 JUN 2004 ELS SUBJECT OT THE TERRS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERN" FOR DETAILS. COPPRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOSIS' ENTERED AT 08:54:42 ON 09 JUN 2004 COPYRIGHT (C) 2004 BIOLOGICAL ABSTRACTS INC.(R) FILE 'EMBASE' ENTERED AT 08:54:42 ON 09 JUN 2004

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    » s (dem or define or reak) (p) (intercalat? or bind? or inhibit?) (p) (polyami? or alkylamin?) (p) (Rasganir or base(a2)pail. or minor(a2)groove or major(a2)groove)
    Mystro operators (asset 2) and or an inforcation or received or the saarch profile that was entered contains terms or nested terms that are not separated by a logical operator.

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File 'CAPLUS'
'? TRUNKATION SYMBOL NOT VALLIN' 18ASSPAIR'
THE TRUNCATION SYMBOL NOT VALLIN' 18ASSPAIR'
THE TRUNCATION SYMBOL NOT WALTHON 18ASSPAIR'
Womin' to specify a variable fartacter within a word use '!' e.g.,
"womin' to specify a variable fartacter within a word use '!' e.g.,
"womin' to specify or both 'woman' and 'women'. Enter "HELP
TRUNCATION" at an arrow prompt (=>) for more information.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ⇒ s (dna or dsdna or rna) (p) (intercalat? or bind? or inhibit?) (p) (polyami? or alkylamin?) (p) (basepair or base(2a)pair or minor(2a)groove or major(2a)groove)
File 'CAPLUS'
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FILE 'CAPLUS'
'2DAM 'NOT LONG EMODIAH FOR LEFT TRUMCATION
YOU have entered a truncated stem whose length is less than
the minimum allowed for left truncation in the requested
search field. You may increase the length of the stem to
the minimum allowed and try again. Enter HELP SIELDS to
tto find the minimum seem length for left truncation in
the requested search field.
                                                                                                                                                                                                                                                                                                                                                                                                                                      => s (dna or ?dna or rna) (p) (intercalat? or bind? or inhibit?) (p) (polyami? or alkylamin?) (p) (base?pair or minor?groove or major?groove)
0* FILE CAPLUS
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MiSSING obeRATO minnor provove or major?groove)\
This search profile that was entered contains terms or mested terms be a the profile by a logical operator.
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Misszika ofezkurk neg?davove or major?groove).
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The search profile that was entered contains terms.
The search profile that was entered or a logical operator.
                                                                                                                                                                                        INDEX 'CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 08:54:59 ON 09 JUN 2004
                                                TOTAL
SESSION
6,46
                                                                                                                                                                                                                                                                                                                                    Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0* with SET DETAIL OFF.
                                                SINCE FILE
ENTRY
4.57
=> index caplus biosis embase scisearch cost IN U.S. DOLLARS
                                                                                                                                                                                                                                                                   4 FILES IN THE FILE LIST IN STNINDEX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2749 DSDNA
35 DSDNA
2761 DSDNA
(DSDNA OR DSDNAS)
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38338 INTERCALAT?
1045233 BEND?
1059007 INHERIT?
199007 INHERIT?
199001 POLYMAT?
25545 ALKYLMATR
373 RASEPATR
872 RASEPATR
872 RASEPATR
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SET COMMAND COMPLETED
                                                                                                            FULL ESTIMATED COST
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21475 RNAS
275003 RNA
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7661 INTERCALAT?
618208 BINDS.
994579 INHEBIT?
1348 ALKYLANIR
1348 ALKYLANIR
1348 ALKYLANIR
1348 ALKYLANIR
1348 ALKYLANIR
1350772 BASEPAIR OR BASEPAIRS)
169556 BASE
   (DSDNA OR DSDNAS)
14600 RNA
294189 RNA
                                                                                                                                                                                                                                                                                                                                                                                                                        (BASE OR BASES)
(GASE OR BASES)
(GASE PAIRS
(BA74) PAIRS
(FAIR OR PAIRS)
(TABLE OR PAIRS)
(TABLE OR PAIRS)
(MINNER OR PAIRS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      40144 GROOVE GROOVES)
264 (ORA OR BASING AS RANA) (P) (TIMPERCALAT7 OR BIND? OR INHIBIT?)
(P) (ORA OR BASING AS RANA) (P) (TIMPERCALAT7 OR BIND? OR INHIBIT?)
(P) (OLANAT7 OR ALKYLAMIN?) (P) (BASEPAIR OR BASE(ZA)PAIR OR BIND? OR INHIBIT?)
(P) (OLANAT7 OR ALKYLAMIN?) (P) (BASEPAIR OR BASE(ZA)PAIR OR BIND? OR INHIBIT?)
(11243 DANA

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138 (DAW OR DSOMA OR RINA) (P) (INTERCALAT? OR BIND? OR INHIBIT?)
(P) (POLYMAT? OR ALKYLMAIN?) (P) (BASEPAIR OR BASE(ZA)PAIR OR MINOR(ZA)GROOVE OR MAJOR(ZA)GROOVE)
(BASEPAIR OR BASEPAIRS)
199737 BASE
19944 BASES
68541 BASE
                                                                                                                                                                                                                                                                                            28043 GROOVE
15529 GROOVE
15529 GROOVE
401144 GROOVE
538758 MAJOR
1072 MAJOR
539689 MAJOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (GROOVE OR CROOVES)
14806112 MAJOR
14806112 MAJOR
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28043 GROOVE
16529 GROOVE
40144 GROOVE
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8806 GROOVE
2801 GROOVES
10953 GROOVE
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101842 MINORS
294 MINORS
102070 MINORS
8806 GROOVE
2801 GROOVES
10953 GROOVE
                                                                                                                                                      208257 PAIR
14168 PAIR
14181 PAIR
31281 PAIR
144723 MINOR
29 MINORS
144941 MINOR OR MINORS)
                                                                                                                                      BASE OR BASES)
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18 DSDNA
2180 DSDNA
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554811 DNA
9248 DNAS
555926 DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILE .
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140 (DNA OR DSDNA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT?)
(P) (POLLYMIT? OR ALKYLAMIR) (P) (BASEPAIR OR BASE(ZA)PAIR OR STISEARCH*
SZISEARCH*
821500 DNAS
8780 DNAS
524246 DNA
                                                                                                                                                                                                                                                                                                                                                                                                           (BASEPAIR OR BASEPAIRS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         465014 MAJOR
46514 MAJOR
465714 MAJOR
11374 ROOVE
4444 GROOVE
                                          (GROOVE OR GROOVES)
1665763 MAJOR
1665914 MAJOR
(MINOR OR MINORS)
6811 GROOVE
1589 GROOVES
8055 GROOVE
                                                                               (MAJOR OR MAJORS)
6851 GROOVE
1589 GROOVES
8055 GROOVE
                                                                                                                                                                                                                                                                                                                                                                                                           19427 BASE
48976 RASE
283076 RASE
283078 RASE
105837 PATR
105837 PATR
180662 PATR
96584 MINOR
96584 MINOR
11374 GORDE
1444 GORDE
1473 GORDE
1473 GORDE
1473 GORDE
1473 GORDE
                                                                                                                                                                                                                         CONA OR DNAS)
22 DSDNAS
23 DSDNAS
226 DSDNA
2286 DSDNA OR DSDNAS)
                                                                                                                                                                                                                                                                                                        (RNA OR RNAS)
2322 WITERCLAAT
2522 WITERCLAAT
2529 PAUNITY
2529 PAUNITY
2529 PAUNITY
428 MASEPARK
428 MASEPARK
970 MASEPARK
                                                                                                                                                                                                                                                                           287718 RNA
30627 RNAS
304636 RNA
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QUE (DNA OR DSDWA OR RNA) (P) (INTERCALAT? OR BINO? OR INHIBIT?) (P) (POLY MAT OR ALKYLAMIY?) (P) (BASEPAIR OR BASE(2A) PAIR OR MINOR(2A) GROOVE OR MAJOR(CA) GROOVE ב

TOTAL SESSION 16.15 ⇒ analyze ll THYS COMMAND IS NOT AVAILABLE IN STNINDEX SOME commands are not allowed after the INDEX command. Enter HELP COMMANDS at a arrow prompt (⇒>) for a list of commands that may be used in STNINDEX. SINCE FILE ENTRY 9.69 FILE 'CAPLUS' ENTERED AT 09:04:57 ON 09 JUN 2004 USE IS SUBJECT TO THE TERMS OF YOUR STR CUSTOMER AGREEMENT. FLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPPRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS) FILE 'BIOSIS' ENTERED AT 09:04:57 ON 09 JUN 2004 COPYRIGHT (C) 2004 BIOLOGICAL ABSTRACTS INC.(R) => file caplus biosis embase scisearch COST IN U.S. DOLLARS FULL ESTIMATED COST

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FILE 'SCISEARCH' ENTERED AT 09:04:57 ON 09 JUN 2004 COPYRIGHT 2004 THOMSON ISI

=> 5 11 3 FILES SEARCHED...

⇒> analyze l2 ENTER ANSWER NUMBER OR RANGE (1-):1-703 ENTER DISPLAY CODE (FILEDEFAULT) OR ?:end

ie Segment Hakseywholer Ternational Patent Classification (IPC) Iditional (Supplementary) IPC idex (Complementary) IPC condary IPC ventor Name rernational Standard (Document) Number

SEA (DNA OR ?DNA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT?)

OF FILE CAPLUS

SEA (DETAIL ON PERM
SEA (DNA OR PROM) (P) (INTERCALAT? OR BIND? OR INHIBIT?) 264 FILE CAPLUS
18 FILE BEDSTS
110 FILE EMBOSTS
118 FILE CAPLUS
118 FILE CAPLUS
119 FILE CAPLU O* FILE CAPLUS
SEA (DNA OR DSDNA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT? INDEX 'CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 08:54:59 ON 09 JUN 2004 FILE 'CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 08:54:42 ON 09 JUN 2004 (FILE 'HOME' ENTERED AT 08:49:08 ON 09 JUN 2004) 355 TERMS 1996/PD 1997/PD 1997/PD 1991/PD 1991/PD 2001/PD 2000/PD 20000/PD 20000718/PD 20030/PD 20030/PD 20030/PD 20030/PD ANALYZE L2 1-730 PD : # OCC # DOC % DOC PD t d 13 TERM # ゴ

FILE 'CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 09:04:57 ON 09 JUN 2004 355 TERMS 730 S L1 ANALYZE L2 1-730 PD :

25

>> 12 and py>=1999 L4	
<pre>-> dup rem ENTER # LIST OR (END):5 IS NOT VALID HERE The L-number entered has not been defined in this session, or it has been deleted. To see the L-numbers currently defined in this session, encer DISPLAY HISTORY at an arrow prompt (÷).</pre>	
⇒ dup rem 15 PROCESSING COMPLETED FOR L5 98 DUP REM L5 (146 DUPLICATES REMOVED)	
=> analyze 15 1- pd L7 AMALYZE L5 1- PD : 81 TERMS	
=> tabulate 17 DISPLAY AS GATD FORMAT (N), Y, OR 2:y RETER PRIMARY DISPLAY CODE OR (?):pd ENTER SECONDARY DISPLAY CODE OR (?):end	
=> tabulate ENTER AMAYZE OR SELECT L# (L7); DISPURY AS GATE OR SELECT (# (L7):17 DISPURY AS GATE DEWAT (N), Y, OR ?:Y ENTER PRIMAY DISPURY (N); Y, OR ?:Y ENTER PRIMAY DISPURY FIELD CODE OR (Y):? ENTER THE display field code to be used as the primary term.	
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FERENCE PRIMARY DISPLAY CODE ON (?);icm ENTER PRIMARY DISPLAY CODE ON (?);icm ENTER PRIMARY OF DISPLAY CODE ON (?);py FRIMARY SORT OBER (CURRENT). DEVILED APPRIMARY SORT OBER (CURRENT). DOC, ALPHA, OR ?: SECONDARY SORT OBER (CURRENT). DOC, ALPHA, OR ?: SECONDARY SORT OBER (CURRENT). DOC, ALPHA, OR ?: SECONDARY SORT OBER (CURRENT). DOC, ALPHA, OR ?: A FEW WILL BE CHANGED. PROCEED? (Y), N, D, OR ?: A A FEW WILL BE CHANGED. PROCEED? (Y), N, OR ?; A MARYZE US. PROCEED? (Y), N, OR ?; SI TENNS	
NO TERMS MATCHED THE PRIMARY TERM CRITERIA	
REFORMAT USING SAME DISPLAY FIELDS? (W), Y, OR ?:y DISPLAY AS GATD FORMAT (N), Y, OR ?:y DISPLAY STANCHY AND SECONDARY DISPLAY FIELDS (W), Y, OR ?:y DISPLAY REMARKY AND SECONDARY DISPLAY FIELDS (R), Y, OR ?:y REMARK SORT ORDER (CARENT), DOC, ALPHA, OR ?:. REMARK SORT ORDER (CARENT), DOC, ALPHA, OR ?:. SECONDARY SORT DROBE (CARENT), DOC, ALPHA, OR ?:. SECONDARY SORT DROBE (CARENT), DOC, ALPHA, OR ?:. MARKYEL IS IN P. PP : PP : REMARKS	
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REFORMAT USING SAME DISPLAY FIELDS? (N), Y, OR ?:end	
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(FILE 'HOME' ENTERED AT 08:49:08 ON 09 JUN 2004)	
FILE 'CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 08:54:42 ON 09 JUN 2004	
SEA (DNA OR ?DNA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT?)	
0* FILE CAPLUS SET DETALL ON PERM SEA (DWA OR 7DMA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT?)	
0* FILE CAPLUS SEA (DNA OR DSIDNA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT?	
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B FILE BIOSIS 80 FILE PHBASE 90 FILE SCTSEARCH QUE (DWA OR DSDWA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT?

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'CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 09:04:57 ON 09 JUN

730 S L1
ANALYZE L2 1-730 PD : 355 TERMS
446 S L2 AND PY>=1999
244 S L2 NOT L4
98 DUP REM L5 (146 DUPLICATES REMOVED)
ANALYZE L5 1- PD : 81 TERMS

=> d fbib abs hitstr total 'ToTal' IS NOT VALID FOR SERTISELECT L-NUMBER DISPLAYS L'TOTAL' ANALYZE LS 1- PD : 81 TERMS ANALYZE LS 1- PD :

Please specify how many terms you wish to display. Valid responses are:

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SEA (DNA OR 2DNA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT?)
OF FILE CAPLUS
SEA (DNA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT?)
OF FILE CAPLUS
SEA (DNA OR DSDNA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT?)
OF FILE CAPLUS
SEA (DNA OR DSDNA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT?)
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138 FILE BIOSIS
140 FILE WEASE
188 FILE SCISEARCH
QUE (DWA OR DSDNA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT?
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display all of the terms of terms (i.e. TOP ID) where needers to a number of terms (i.e. TOP ID) where needers of solid yeterms with occurrence counts greater than indisplay terms with becreates counts greater than nisplay terms with percentage counts greater than nisplay terms with percentage counts greater than nisplay the rerms specified (e.g. 1-5)
                                                                                                                                                                                                                                                              => d rank 16
This DATALID IN THE CURRENT FILE
This botton is not valid in the current file. Enter the command
without the option at the arrow prompt (=>). Or, first enter the
file in which the saved item created. Then enter the command and
option at an arrow prompt in the file.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 => d 16 1- fbib abs hitstr total YOU HAVE REQUESTED DATA FROM 196 ANSWERS - CONTINUE? \gamma/(N):n
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'ABS' IS NOT VALID HERE
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PROCESSING COMPLETED FOR L6
L8 98 FOCUS L6 1-
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140
138
138
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264 FILE CAPLUS

Selective placement of an aliphatic β -alanine (β) residue paired side. The anomatic amino acid is sidective placement of an aliphatic β -alanine (β) residue paired side. The very-side writh either a pyrrole (γ) or indiazole (γ) alonatic amino acid is sound to compensate for Sequence composition effects for recognition of the pyrrole and indiazole aromatic amino acids, as well as γ -aminobutynic acid (γ) "turn" and β -alanine aliphatic amino acid residues. The residues are residues aromatic amino acids, as well as γ -aminobutynic acid (γ) "turn" and β -alanine "springa" plobatic amino acid residues. The residues are residues are faffinities and specificities of these polyamides are residues by the placement of paired β , γ , and m/β pairing a α -poperating in α -poperating γ and γ -poperating γ -poperating 0° FILE CAPLUS SEA (DNA OR DSDNA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT? O° FILE CAPLUS SEA (DNA OR DSDNA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT? 0° FILE CAPLUS SET DETALL ON PERN SET (DNA OR ?DNA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT?) 264 FILE CAPLUS 1138 FILE BIOSIS 140 FILE EMBACH 186 FILE SCISCHRCH QUE (DAA OR DSDNA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT? SEA (DNA OR ?DNA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT?) INDEX 'CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 08:54:59 ON 09 JUN 2004 FILE 'CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 08:54:42 ON 09 JUN 2004 'CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 09:04:57 ON 09 JUN (FILE 'HOME' ENTERED AT 08:49:08 ON 09 JUN 2004) 730 S L1
AMAZYZ L2 L2-730 PD : 355 TERMS
486 S L2 AND PY>=1999
244 S L2 NOT L4
98 DUP REM L5 (146 DUPLICATES REMOVED) 13 AMAVZE LO.
14 486 S. LC.
15 44 S. LC.
16 98 DUP RRP
17 18 98 FOCUS LU
DELETE L' L8? (Y)/N:Y => d l6 1-98 ibib iabs PUBLISHER: DOCUMENT TYPE: LANGUAGE: ABSTRACT: d his J 22428

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2.40 p. march sequence 5. Tetroaccae; with an equilibrium association constant of Ka = 5.40 p. march sequence 5. Tetroaccae; with an equilibrium association constant of Ka = 10.40 p. march 18.00 p. mar
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31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

COUNTRY OF AUTHOR: SOURCE:

FIGURE OF THE PROPERTY OF THE

LIFE English 40 ** ANAILABLE IN THE ALL AND IALL FORMATS** DOCUMENT TYPE: FILE SEGMENT: LANGUAGE: REFERENCE COUNT:

ABSTRACT:

inding data are presented for the interaction with brewer's yeast tRNA(Phe) of a new structural family of lagands, symmetrical 'bis-benzimidazoles. In addition specific perturbations in chemical shifts were detected by the perturbations in chemical shifts were detected by the protons of the way expected that the protons of truak(Phe) when the trake was triaxed with distamycin. Competitive spectroscopy.

L6 ANSWER 5 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 3
ACCESSION NAMBER: 1298:818123 CAPLUS FULL-LER
128:440837
TITLE: RAHBER: Stereochemical Control of the DNA
RINGING Affinity, Sequence Specificity, and
Orientation Preference of Chiral Hairpin
Groups

AUTHOR(S): CORPORATE SOURCE:

Herman, David M.; Baird, Eldon E.; Dervan, Peter B. Division of Chemistry and Chemical Engineering, California Institute of Technology Pasadena, CA, 31125, USA, Dournal of the American Chemical Society (1998), CODEN: JACSAT; ISSN: 0002-7863 American Chemical Society Soc PUBLISHER: DOCUMENT TYPE: SOURCE:

LANCAMENT 17PE: GOUTHAI LANCAMENT INTE: Engilsh HANCAMEN ABSTRACT Three-ring polyamides containing pyrrole (Py) and imidazole (Im) amino acids covabartly coupled by raminouburyric acid (4) form six-ring haipins that recognize five-base-pair sequences in the service of the "r-turn" enhances the properties of polyamide haipins that recognize five-base-pair sequences in the service of the "r-turn" enhances the properties of polyamide haipins with regard to DMA affinity and sequence composition Impypy-p-pypyp which differ by selective strenothen. Substitution of the prochinal a-position in the remain energy of the propared The DMA binding properties of two remainioneric polyamides were analyzed by footprinting and affinity cleaned that replacement of r-aminoburyric acid enhances DMA binding two match sites (3-ToTIA-3) and one \$5-ToTIA-3" mismatch site is dealed acid to the 5-ToTIA-3" and the \$5-ToTIA-3" mismatch site is acid by affinity is achieved without a compromise in sequence selectivity, which in fact increases and is found to be 100-fold higher relative to binding at a single base pair mismatch are placed.

reduced affinity relative to the R-enantiomer and only 5-fold sequence specificity vs. a 5-AGATI-3 reversed orientation site. These effects are modulated by acceptation of the chiral amine substituents. This study identifies structural elements which should facilitate the design of new hairpin polyamides with improved DNA binding affinity, sequence specificity, and orientational selectivity.

THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 4
11981-34386 CAPLUS FULL-text
129:119196
A comparison of H-pin and hairpin polyamide motifs for the recognition of the minor groove of DWA Greenberg, William A.; Baird, Elbon E.; Dervan, Peter L6 ANSWER 6 OF 98 C. ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

CORPORATE SOURCE:

AUTHOR(S):

Arnold and Mabel Beckman Lab. Chem. Synthesis.
Arnold and Mabel Beckman Lab. Chem. Cy, 91101, USA
California Inst. Technol., Pasadena, CA, 91101, USA
Chemistry—A European Journal (1998), 4(5), 796-805
Wiley-URH Verlag GmbH
English

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

ABSTRACT:

In order to compare strategies for covalent linkage of pyrrole-imidazole

(Py-Ta) polyamadie subunists, equilibrium association consts. (Ka) were determined

raminoburyic acid linker (haipin morify on linked across a central

PyPy pair through a tetramethylene spacer (H-pin morif). Compared to the

Well-Characterized haipin morify the H-pin morify corpared to the

relatively unexplored approach for increasing the affinity and the specificity

of 2.1 polyamides*** containing 6 or 10 aromatic amino acid residues were synthesized by

solid-phase methods using a Boc-protected bispyrrole moment combined with

bi-directional synthesis. The Dwa-binding properties of

6-ring and 10-ring H-pin polyamides were analyzed by quart. Dwase I

footprint titration on a DWA fragment containing 5 or 7 base

polyamides* and an analyse and an analyse of the phonoimeric H-pin

(ImPPy-p-Dp)Zck binds to the 7 base pair

match sequence 5-rotto-3 with ka = 3.3 + 1064-1 and 9-4-fold

specificity relative to the single base mismatch sequence 5'-TortA-3' (ka = 9.9

+ 1054-1). The heterodimeric H-Pin (Impy-py-p-Dp)Zck-prypy-p
pp) binds a 5'-TortA-3' match sequence with ka = 2.0 + 1064-1

and 3.5-fold sepecificity w., the single base mismatch sequence 5'-TortA-3' (ka = 4.4 + 1054-1). The 10-ring H-pin (Impy-py-p-Dp)Zck-prypy-p-p-Dp)Zck-pryphinds and mismatch sequence 5'-TortA-3' (ka = 4.5 + 1054-1). H-pin polyamides profice a profice of the corresponding haipinp polyamides.

S-TortA-C-3' with ka = 4.4 + 1004 mint of the polyamides.

S-TortA-3' with ka = 4.4 + 1004 mint of the polyamides repeased resides resides the morif for the recognition of predect, sequence in the Dw minn

These results indicate that H-pin polyamides represent a viable morif for the recognition polyamides represent a viable morif for the recognition properties appear

THERE ARE 58 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 28 REFERENCE COUNT:

LG ANSWER 7 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 5
DOCUMENT NUMBER: 129:8:65290 CAPLUS FUI]—TEXT
DOCUMENT NUMBER: 129:9:26670
TITLE: An analysis of a class of DNA sequence reading molecules of DNA sequence

Abbind.

In the Minor groove of double strande DNA in a parinfor groove of double strande DNA in a parially sequence—specific manner but have limited sequence discriminatory parially sequence—specific manner but have limited sequence discriminatory abilities. This suggests a need for design alternatives to create mols, with enhanced sequence specificity. In this report we present formal proofs of the theor. I mits of the DNA sequence specificity of hypothetical sequence creading mols, as a function of their base recognition properties and sequence content and length of their target sequence, we prove that mols.

containing nonspecific readers at critical positions within the mol. may have enhanced sequences specificity over mols. composed entirely of base specificity for reading elements. We also determine optimal patterns of base recognition for mols. in order to optimize their tranget sequence specificity. We also examine the effect of the length of a polyamide (i.e., the number of base "wasins: at binds) on its sequence discriminatory ability and determine necessary concentration dependent constraints on the binding free energies in order for longer polyamides to have greater sequence specificity than shorter ones. We show that unless the discriminatory ability of a ring for its preferred base is very strong, longer polyamides do mongared at the same molar concentration concentration over shorter ones when

12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

LG ANSWER 8 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
1303:48606
TITLE:
5014606
AUTHOR(S):
701, 89000 Mar. Joen, Sun Hee; Song, Young-Dae; Cho, Planch Correction of Chemistry, College of Scrience, Yeungnam Donores:
5000RCE:
5000RCE

MASTRACT:

White spermine, which is one of the polyamines containing cation in when the spermine, which is one of the polyamines containing cation in when the spermine, which is one of the polyamines containing cation in when we have a maccard as a man the spermine be binding geometry of the spermine to DAA. By using spectroscopic methods nobody can show the spermine to DAA. By using spectroscopic methods no a Spectroscopic method of a Spermine of a DAA-spermine complex, as a Spectroscopic probe of spermine. As the result of base safective "weblinding"— geometry was well known, as a Spectroscopic probe of spermine. As the result of base safective "weblinding"— geometry of spermine to synthetic DAA, when the concentration of spermine growe of adenine-thymine DAA-spermine can be proposed to the major groove of poly[d/d-T]. So that the hard of fluorescence spectrum of DAA-1 increased. In guanine-cytosine "websase" pair, polydid(d-C)21, we can suppose that spermine contribution of proposed of proper of the major growe of DAA, showing across the major growe. The DAA, showing across the major growe. The DAA, showing across the major growe. The DAA, showing across the major growe. ţ

LG ANSWER 9 OF 98 CAPLUS COPPRIGHT 2004 ACS on STN DUPLICATE 6
DOCUMENT NUMBER: 128:291573
TITLE: 128:291575
TITLE: Recognition of the four warson-crick base pairs in the DAM minor groove by synthetic ligands
AUTHOR(S): White: Starler Sta

Assumed:
The description of synthetic ligands that read the information stored in the description of both the description of both the description of both the description of gene expression.

***Obdate and biol.** Cell-permeable small moils. That raget predeted. BNA sequences offer a portential approach for the regulation of gene expression. Olygodeoxyncleotides that recognize the amplo spoove of many of the description of gene expression. Olygodeoxyncleotides that recognize the amplo spoove of many of the description of gene expression. The triple-hell shall approach is Inmited to recognizion of purines and suffers from poor cellular uptake. The subsequent development of pairing rules contraining pyrrole (Pty) and inidazole (Im) amino acids offers a second code to control sequence specificity. An Im/Py pair is distinguishes 6. gtorsim. C from C. gtorsim. G and both of these from A.T.T.A base dudies expression. The many of the description of purines and captoring the description of the description around adnostic amino acid, 3-hydroxypyrrole (Hp), to the repertoire to test for pairings

that discriminate A.T from T.gtorsim.a. We find that replacement of a single hydrogen atom with a hydroxy group in a HePPy pairing regulates affinity and specificity by an order of magnitude. By incorporation of this third amino acid hydroxyprrole-imidazole-pyrrole polyamides form four ring-pairings (ImPPy Py/Im HePPy role polyamides form four ming-pairings (ImPPy Py/Im HePPy role polyamides).

LG ANSWER ID OF 98 CAPUUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 130:12583
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100:12

PUBLISHER: DOCUMENT TYPE: LANGUAGE: ABSTRACT:

REFERENCE COUNT:

L6 ANSWER 11 OF 98 C ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

98 CAPLUS COPYRIGHT 2004 ACS ON STAIRBLE IN THE RE FORWAT 1998:545606 CAPLUS ALL CITATIONS AVAILABLE IN THE RE FORWAT 1998:545606 CAPLUS ENTITED STAIR CORPORATE SOURCE: AUTHOR(S):

PUBLISHER: DOCUMENT TYPE:

SOURCE:

ASTRACT:

Addingent of the available human immunodeficiency virus type 1 (HIV-1) viral
DACK termin [US and ual Snop terminal repeats (LRS)) shows a high
degree of conservation and the presence of a stretch of five or six consecutive
dedinine and typnine (AT) sequences approx. 10 morelectides away from each LTR
end. A series of AT-selective minor-groove binders away from each LTR
including distancin and bisdistancymis, bisnertopsins, novel lexitropsins,
and the classic monomer: DAW binders Hoechts 13358.
4-damino-2-phenylindole, pertaining, bisnering, and spermidine, were
tested for their inhibitory activities against HIV-1 integrate (IN).
Although netropsin, distancin, and extremomeric DAW
binders showed weak activities in the range of 50-200 LM, some of
the polyamides, bisdistancins, and lexitropsins were remarkably
active at nanomalar concurs. Bisdistancins were 200 times less potent when the
consistent with the preferred binding of these drugs to AT sequence.
Nones t focuprinting of the US ITR further demonstrated the selectivity of
these bisdistancins of the US ITR further demonstrated the selectivity of
these bisdistancins of the US ITR further demonstrated the selectivity of
these potent in Mg22 than in Mm.2 and inhibited 1805-212 deletion
mutant in disintegration assays and the formation of IN/DMA
complexes. The lexitropsins also were active against HIV-2 IN. Some of the
synthetic polyamides edrat suggest that selectivity activity. Taken
together, these datas suggest that selective targeting of the US and used of
represent new Health formation. Polyamides might
represent Represent Represent Represent Pagents against acquired
immune Additionary avaidorer development of antiviral agents against acquired epresent new leads for the immune deficiency syndrome.

THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

CAPLUS COPYRIGHT 2004 ACS on STN ANSWER 12 OF 98 91

1998:523083 CAPLUS FULL-text

29:273962

DAS sequence recognition in the minor groove by polyamides, using a GC-specific reading element: a polyamides, using a GC-specific reading element: a perspective from crystal lography (Appin Agrices). The string of the work of the string is of the string of the structure month of the string of structure, month of the string of structure month of the string of the structure month of the string of the strength of the strength of the string of the strength of the stre ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: CORPORATE SOURCE: AUTHOR(S): SOURCE:

DOCUMENT TYPE: CONFERN GNOKAV

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ABSTRACT:

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75 THERE ARE 75 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

LG ANSWER 13 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NAMBER: 1998:19593 CAPLUS ENTI-REG.
TITLE: REGISTOR OF gene expression by small molecules.
AUTHOR(S): Dervan, Peerer B.
OKYONATE SOUNCE: Division Chemistry and Chemical Engineering.
DIVISION CHEMISTRY AND CHEMISTRY OF PASAdema, CA, 91125, USA
SOUNCE: BOOK OF ABSTRACTS, 215th ACS National Meeting, Dallas, March 29-April 2 (1998), OKON-141. American Chemical CODEN: 5671AA MASHINGTON, D. C.
CONTENENCE: Meeting Abstract
ENGAGANGE: ENGAGANGE: RECEIVED AND CONTENENCE FOR TABLE AND CONTENEN

CONTRICT TYPE: Conference, Meeting Abstract
LNALAMKE:
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L6 ANSWER 14 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 8 ACCESSION NUMBER: 1998:241584 CAPLUS $\overline{Full-text}$

Addition to the process of the proce 129:24703 of major-groove-binding proteins by Inhibition of major-groove-binding proteins by Inhibition of major-groove-binding proteins by postfice indicates a partial service part. Braid, Eldon E.; Dervan, Preter B. Arnol and Make; Berkman Laboratories of Chemical Proteins Can Formia Institute of Technology, Chemical Standard Chemistry & Biology (1990), 5(3), 119-133 Chemistry & Biology (1990), 5(3), 119-133 Chemistry & Biology Ltd. AUTHOR(S): CORPORATE SOURCE: DOCUMENT NUMBER: TITLE: PUBLISHER: DOCUMENT TYPE: SOURCE:

56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

LG ANSWER 13 OF 98 CAPLUS COPPRIGHT 2004 ACS ON STN DUPLICATE 9

DOCCOMENT NUMBER: 128:354196
TITLE: 128:354196
TITLE: STRUCTURE basis for Gr eccognition in the DNA minor groove and provide and prov

ABSTRACE.

Small moils. that target specific DNA sequences offer a potentially general approach for the regulation of gene expression. Pyrrole-imidazole small moils. that can every layout a comparable for the regulation of gene expression. Pyrrole-imidazole every high and percent in the can every layout and experience and the finities and specificities comparable to DNA sequences with affinities and specificities side-by-side pairings proteins. Antiparallel (TN) distinguish Gor form cos, and both from APITAR (CN), distinguish Gor form cos, and both from APITAR (CN) as six-Base with predetd. DNA site reveals a dimer to a six-Base with predetd. DNA site reveals and interactions with the walls of the recognition.

43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

L6 ANSWER 16 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN
1998:1336 CAPLUS FUI]—text
DOCUMENT NUMBER: 128:5653
TITLE: Tritherencyclic peptides capable of binding the minor and major groves of DNA
INVENTOR(S): Bruice, Thomas C.; Browne, Kenneth A.; He, Gong-Xin

University of California, USA U.S., 66 pp. CODEN: USXXAM Patent English DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT ASSIGNEE(S): SOURCE:

APPLICATION NO. US 5698674 A 19971216
PRIORITY APPIN. INFO.: WARPAT 128:856;
GRAPHIC IMAGE: KIND DATE PATENT NO.

LG ANSWER 17 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1265.33431
TITLE: 1265.33431
TIT DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DE, DW, ES, FR, GB, GR, IE, IT, LI, LU, MC, NI, PT, SE
139900815 A7 1393-92334 13931014
A 139900515 US 1395-466714 13950062
A 139900515 US 1392-46680748 139504024
US 1392-966936 A 13931014
WARPAT 126:343431 FR, GB, GR, IE, IT, LU, MC, NL, PT, SE AU 1994-53254 19931014 us 1992-965922 19921023 CA 1993-2147608 19931014 WO 1993-US9629 19931014 EP 1993-923324 19931014 APPLICATION NO. DATE A 19970422 AA 19940511 A1 19940511 A1 19980729 10980724 10980313 119980729 KIND M. 94.04.7 BE, CH, DE, M. 94.1 A. 94.1 A. 94.2 US 5622960 CA 2147608 WO 9410175 PATENT NO.

OTHER SOURCE(S): GRAPHIC IMAGE:

ABSTRACT:
Azaroxi and derivs. thereof are illustrative of a new class of antitumor drugs
Azaroxi and derivs. the catalytic activity of the purified enzyme but does not
unmind relaxed or supercolled DNA. It is nonintercalative and has at
least two domains: a quasi-planar polycyclic ring system, which may
pendant substituent thought to interact with the enzyme, with the DNA
pendant substituent thought to interact with the enzyme, with the DNA
inumenous double-strand breaks according to a cleavage pattern which differs
from those of known top 2 inhibitors. Azaroxin also is a potent
****inhibitor**** of tubulin polymerization Azaroxins I Re F. Cl, Br, CN, OH, NH2,
H; R1 = arylamino, substituted alkoxy, alkylamino, protected sugar
derivative; W, M1 = H, Fl were prepared flus, tryptophanol was cyclized to the
derivative and treated with syringaldepyde dimethylacetal to give (5R,11as)-I
(R, R1, W, W1 = H) which is a top 2 inhibitor.

L6 ANSWER 18 OF 98 CAPLUS COPPRIGHT 2004 ACS on STN DUPLICATE 10
ACCESSION NUMBER: 1997:800768 CAPLUS FULL—EXT
DOCUMENT NUMBER: 1288:1637 ESSION AND PROPERTIES OF THE regulatory
TITLE: 1288:1637 ESSION AND PROPERTIES OF THE REGULATORY
AUTHOR(S): Lawson, Janet E.; Park, Seung Hee; Matrison, Angela
CORPORATE SOURCE: Biochemical Instituce and Peparment of Chemistry and Biochemistry, The University of Texas at Austin, Australia Control of Biological Chemistry (1997), 272(50), 200781. 1858: 0021-9258
DOCUMENT TYPE: DOCUMENT TYPE: DOCUMENT TYPE: BIOCHEMISTRY AND MODECULAR BIOLOGICAL CHAMISTRY AND MODECULAR CHAMISTRY AND MODECULAR CHAMISTRY AND MODECULAR CHAMISTRY CHAMI

ABSTRACT:

CDMA encoding the regulatory subunit of bovine mitochondrial pyruwate dehydrogenase prosphatase (PDPP) has been cloned. Overlapping CDMA fragments were generated by the polymerase chain reaction from bovine poly overlapping CDMA fragments and from cDMA synthesized from bovine poly(A)+ RMA and total sometic DMA shows the complete CDMA (2885 base pairs) contains

RMA.* The complete CDMA (2885 base pairs) contains

an open reading frame of 2534 bucleotides encoding a putative presequence of 31 amino acid residues and a mature protein of 847 residues with a calculated Mr of 59,565. This value is in agreement with the mol. mass of marive pppr. 69,806.200 ba) determined by matrix-assisted laser desorption-ionization mass spectrometry. The mature form of PDP was expressed in Escherichia coli as a maltose-binding protein fusion, and the recombinant protein was purified to mear homogeneity. It exhibited properties characteristic of the native PDPr. including recognition by antibodies against mative bopr. ability to decrease the sensitivity of the catalytic subunit to Mg2+, and reversal of this inhibitory effect by the polyamine. PBMAST search of protein data bases revealed that PDPr is cleared to the mitochondial flavoprotein dimethylglycine dehydrogenase, which functions in choline degradation

THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

LG ANSWER 19 OF 98 SCISEARCH COPYRIGHT 2004 THOMSON ISI ON STN
ACCESSION NUMBER: 97:869106 SCISEARCH <u>FUIL-text</u>
THE GENUINE ARTICLE: YGZ73
IIILE:
A novel peptide nucleic acid monomer for recognition of

98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 11
1997:216523
1997:216523
WHE Characterisation of Hairpin Polyamide Complexes
Lamarie de Clairec Refiel Pelacz; Geierstanger,
Barria H. H.; WHESCH, Will an; Dervan, Peter 8.; Wemmer,
Daylor H. H. Grenisty, University of California,
Bertelley, CA, 94720, USA
Journal of the Americal Chemical Society (1997),
GOODE: JACSAT; ISSN: 0002-7863
American Chemical Society
Lournal Chemical Society thymine in triple-helix structures
Eldrup As Dahl Oi, Nielsen PE (Reprint)
S. DK-200 COPENHAGEN, DEWARKK (Reprint): UNIV.
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RECOGNIT, DK-2100 COPENHAGEN, O. DEWARK
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MASHIMETON DC 20036.
ISSN: 0002-7063.
ISSN: 0002-7063.
ISSN: 0002-7063.
ENGINE ST. NM. L6 ANSWER 20 OF 98 CACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE: COUNTRY OF AUTHOR: SOURCE: AUTHOR: CORPORATE SOURCE: DOCUMENT TYPE: FILE SEGMENT: LANGUAGE: REFERENCE COUNT: CORPORATE SOURCE: PUBLISHER: DOCUMENT TYPE: AUTHOR(S): SOURCE:

ABSTRACT:

In antiparalle 1st de-by-side timeric complexes for sequence-specific recognition in the minor groove of sequence specificity. Simple aliphatic designed flagmands with both increased affinity and specificity. Simple aliphatic amino acid finkers severe as internal guide motified motified.

***Dividual serve as internal guide motified moti

L6 ANSWER 21 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 12
DOCUMENT NAMBER: 127-216506
TITLE: Recognition of Seven Base Pair Sequences in the Minor Groove of DAW by Ten-Ring Pyrrole-Imidazole Polyamid Hairpins
AUTHOR(S): Turner, James M.; Baird, Eldon E.; Dervan, Peter B. Division of Chemistry and Chemical Engineering, California Institute of Technology, Pasadena, CA, 30URCE: Journal of the American Chemical Society (1997), CODEN: JACSAY: ISSN: 0002-7863
PMBLISHER: PARCAY: ISSN: 0002-7863
PMBLISHER: PARCAY: ISSN: 0002-7863
PMBLISHER: PARCAY: American Chemical Society (1997), PARCAY: PARCAY: SOURCE: PARCAY: CODEN: PARCAY: TSSN: 0002-7863

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

Austract.

Author upper limit of binding site size is defined for the hairpin how upper limit of binding site size is defined for the hairpin how and motif. Ten-ing hairpin polyamides

recognition of seven base pair (tip) sequences in the recognition of seven base pair (tip) sequences in the seminories proove of DAN. The DAN.

Immediately proove of DAN. The DAN.

Immediately poly polyamides. Impropypypy-1-polyamides. Intrins. demonstrate that Impropypy-1-polyamides.

Assimilation polyamides which differ only by the linear arrangement of pyrrole (Py) and inidazole (IM) annio acids were designed for ecognition of 6-bp pairs. The resp. DAM binding 4 contiguous G.C. recognition of 6-bp pairs. The resp. DAM binding 4 contiguous G.C. properties of 3 polyamides, Immapyey-P-pb.
Immylamby-Lampylamby-B-bp, and Imminator-pyrepyey-B-bp,
Immylamby-Lampylamby-B-bp, and Imminator-pyrepyey-B-bp,
outstning the resp. match sites 5 'IGCCGCA-3' and 5 'IGCGCA-3',
Quant, footprint ritins, demonstrate that Immapyey-rilampypy-B-bp,
"***thinding*** the designed match sites 5'IGCCCA-3', with an equilibrium association sequences, 5'-IGCCCA-3', and 5'-IGCCGCA-3', and 5'-IGCCCCA-3', and 5'-IGCCCCCA-3', and 5'-IGCCCCCA-3', and 5'-IGCCCCA-3', and 5'-IGCCCC

ImPyImPy--ImPyImPy-B-Dp and ImImImIm--PPyPyPy-B-Dp recognize their resp. 5-Toccock-3 and 5-Toccock-3 marth sites with reduced affinity relative to ImImPyPy-1-ImImPyPy-B-Dp, but again with high specificity relative to ImImPyPy-1-ImImPyPy-B-Dp, but again with high specificity with regard to mismath sites. These results expand the ***polyamides** sequence repertoire targeted by pyrroie-imidazole which will guide further second-generation polyamide design for DNA recognition.

L6 ANSWER 23 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 14 ACCESSION NUMBER: 1997:356731 CAPLUS EUIL-REXT DOCUMENT NUMBER: 1277.7762 FOR FRANCE ACCESSION NUMBER PROPERTY OF ACCESSION NUMBER PROPERTY OF ACCESSION OF ACCES

Estimation of the DMA sequence discriminatory ability of haipini-liked lexitropsins where won L.; Landaw, Elliot M.; Dickerson, Richard E.; Goodsell, David S. M. (1904 M.) Biol. Inst., Univ. Chiffornia, Las angeles CA, 90024, UST. (1904 M.) Proceedings of the National Academy of Sciences of the United States of America (1907-844 Martinal Academy of Sciences of States of America (1907-844 Martinal Academy of Sciences Dours) Dours Martinal Academy of Sciences CORPORATE SOURCE: AUTHOR(S):

PUBLISHER: DOCUMENT TYPE:

SOURCE:

ABSINACT.
Three—and four-ring polyamides containing N-methylimidazole and
Three—and four-ring polyamides containing N-methylipyrrole, and their haitprin-linked derive. Bind side-by-side
in the minor grower of DwA in a sequence-specific
manner. The sequences recognized by side-by-side mols as are dependent on the
pathing of the Dynamide rings to the bases. This study reports a
reanineapuryric acid-linked polyamides to 5- and 6-bp
fits or sequences. The model parameters are callibrated by a least-squares
fits or 3 spot! Inhiting coints. The model performs well in
proposed empirical rules of polyamide-mbW binding noise are consistent with previously

The model was applied to the design of targeted polyamides, evaluaring the ability of the proposed polyamides to bind to a DNA sequence of interest while minimizing binding to the remaining DNA sequences.

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ADSINALIZED STRUCKED STRUCKE LG ANSWER 24 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 15
ACCESSION NUMBER: 126:340138 CAPLUS ENTI-CEXT
TITLE: PROPERTIES 1.16:340138 CAPLUS ENTI-CEXT
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CORPOSATE SOURCE: DOING 1.16:350-343 CAPLUS CAPL

LG ANSWER 25 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 16
ACCESSION NUMBER: 126:312222
TITLE: 126:312222
TITLE: 126:312222
ANTHOR (S): C. ACREMING ACCESSION OF ACCESSION NUMBER: 126:312222
CORPORTE SOURCE: CAPPER 18 FUTCH THORAS C.; ACAICHM, Jane CORPORATE SOURCE: Experimental Therapatherics Department, Roswell Park CAPPER 18 FUTCH 18 F

CAPLUS. COPYRIGHT 2004 ACS. on STN DUPLICATE 17
138:990257 CAPLUS FUll—TEAC.
128:990257 CAPLUS FULL—TEAC.
A pyrroll—midazole polyamide motif for recognition of eleven base pair sequences in the minor groove of DNA.
Swalley, Susanne E.; Bairde, Ilohn E.; Dervan, Peter B. Arnold and Mabel Beckman laboratories of Chemical L6 ANSWER 26 OF 98
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE: AUTHOR(S): CORPORATE SOURCE:

Asymatics in the definition of binding site size is defined for the 2:1

overlapped oblygaride: DNA mortif. Eight-ving

verlapped oblygaride: DNA mortif. Eight-ving

polyamles

inidazole (Im) amino acids linked by a central \$\rho\$-alanine (\rho\$) spacer

("4-\rho\$ amino acids linked by a central \$\rho\$-alanine (\rho\$) spacer

("4-\rho\$ inidazole (Im) amino acids linked by a central \$\rho\$-alanine (\rho\$) spacer

("4-\rho\$ inidazole (Im) amino acids linked by a central \$\rho\$-alanine (\rho\$) spacer

("4-\rho\$ inidazole (Im) amino grower. The DNA

complexes in the minor grower. The DNA

verbinding \rho\$-py-py-py-p-p-py-py-py-p-p. and

Inimampy \rho\$-py-py-py-p-p-poly were analyzed by footprinting expts. on

***CAGTIACCT** and \$\rho\$-AGGATICCT** (\rho\$\rho\$ alaninops) value binds

1 strong the strong strong in the resp. match sites \$\rho\$-AGTAITIACT-3', \$\rho\$-AGTA Synthesis, California Institute of Technology, Asadena, CA, 91101, 100 Chemistry—A European Journal (1997), 3(10), 1600-1607 CODEN: CEUJED, 15SN: 0947-6539 Wiley-Werl verlag GmbH English SOURCE:

33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

LG ANSWER 27 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 18
ACCESSION NUMBER: 1997-185945 CAPLUS FULL—TEXT
DOCUMENT NUMBER: 127:305-49
TITLE: 127:305-49
AUTHOR (5): 127:305-40
AUTHOR (6): 127:305-40
AUTHOR (7): 1405-40
AUTH

Abstractions in a synthetic sequence-specific DWA-binding
Plosh-netropsin is a synthetic sequence-specific DWA-binding
Iligand comprising two netropsin-like fragments which are liked in a
tal-to-tal manner via a cris-diammine latinum(II) residue. The Co studies and
thermodin characterization of the DWA-binding properties
the complete of the Compound reveal that it forms two types of complexes with
poly(dd/AT) poly(dd/AT) and DWA oligomers containing incleotide corresponds to
sequences 5 -CCPADI C-5 : with in a to a containing first type corresponds to
the sequences 5 -CCPADI C-5 : with in a title according corresponds to
the second by this secured in a title forms of PCPADI C-5 : with in a title according corresponds to
the binding of PC-bis-netropsin complex is built on the basis of
hairpin form of PCPADI-second type of the complex is built on the basis of
PC-bis-netropsin mon is bound per four or five Al-base pairs.

The hairpin form of PC-bis-netropsin complex is built on the basis of
parallel side-by-stale peptide motif which is inserted in the minor
***Shown of PC-bis-netropsin in the hairpin form are different from
those observed for binding of another bis-netropsin with the sequence
the second complexes of this polyamide in
the hairpin form of PC-bis-netropsin in the hairpin form of this
bis-netropsin is formed on the basis of anitypanile is side-by-side peptide
mounting and bot is a dimethyl wannopropylamino residue. The Hairpin form of this
pages at a dimethyl wannopropylamino residue. The Hairpin form of this
pages at all side-by-side peptide mounting side peptide
mounting and the pair pages of this polyamide in
the hairpin form of the complexes of this polyamide in
the hairpin form with poly(dd, D) poly(dd, D) poly(dd, D)
poly dd, D) poly(dd, D)
poly dd, D) poly dd, D) poly dd, D)
poly dd, D) baid do not be basis of a minding second complexes
of polyamide in this reflects
the fact that that tho bis-netropsis use different structural motifs on REFERENCE COUNT:

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RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

rational design of mols. with specific biol. activities. Winor—
"groove" bidding polyanides concarning by wheekly indiazole
and N-methy privale amino acids achieve affinities and specificities comparable
to DAM binding proveries. The synthetic oil observation of
movery of the antibotic calidement of some proveries of the antibotic calidement of the head-to-head dimer of this
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Walter Willy Kopka M.L.; Goodsell D.S. Biology, Scripps

Des. Goodsell, Department of Molecular Biology, Scripps

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Refs. Molecular Biology, Molecular Bi Squence-greatfic polyamides that bind in the whom
ergovoyers.
Squence-greatfic but am attractive candidates for antibiotics,
ergovoyers checking an anatomistic properties that the properties of the properties o AUTHOR: CORPORATE SOURCE: LANGUAGE: SUMMARY LANGUAGE: ABSTRACT: COUNTRY: DOCUMENT TYPE: FILE SEGMENT: SOURCE:

LG ANSWER 34 OF 98 CAPLUS COPPAZIGHT 2004 ACS on STN
ACCESSION NUMBER: 1937-488700 CAPLUS ENTI-ext
Subnanomolar recognition of the minor groove of DNA by
ALTHOR.
AUTHOR(S): 1945-44. James M.: Baird, Eldon E.; Dervan, Peter B.
Turrer, James M.: Baird, Eldon E.; Dervan, Peter B.
Turrer, James M.: Baird, Eldon E.; Dervan, Peter B.
Turrer, James M.: Baird, Eldon E.; Dervan, Peter B.
Division Chemistry and Chemical Engineering,
California Institute Technology, Pasadera, CA, 91125,
SOURCE: Book of Abstracts, 214th Acs National Meeting, Las
Chemical Society: Washington, D. C.
DOCUMENT TYPE: English
English

DOCUMENT TYPE: Conference; Meeting Abstract
LANGAGE:
LANGAGE:
Small mols. that specifically bind at subnanomalar concentration to any
predect. DAS sequence would be useful tools in mol. biol. and
predect. DAS sequence would be useful tools in mol. biol. and
predect. DAS sequence would be useful tools in mol. biol. and
potentially in human medicine. The DAS sequence specificity of
potentially in human medicine. The DAS sequence specificity of
potentially in human medicine and extending potential
potentially in human medicine and extending to more and
pairing roles. We will report a ten-ring hairing polyamide motif for
subnanomalar recognition of 7 base pair (bp) sites. A maide motif for
newel p-alamine substituted hairpin motif will be presented for
recognition of 7 longer sequences.

LG ANSWER 35 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STR
TILLE:
RECOGNITION OF G.C.-Fich Sequences in the minor groove
TILLE:
RECOGNITION OF G.C.-Fich Sequences in the minor groove
DAY-AMERICAL SEASON OF SEASON

DOCUMENT TYPE: LANGUAGE: ABSTRACT:

ABSINACT: Objamides containing N-methylpyrrole and N-methylimidazole amino acids are synthetic ligands that have an affinity and specificity for DMA comparable to naturally occurring DMA-Dimiding proteins. Occasionate naturally occurring DMA-Dimiding proteins. Occasionate naturally bear shown to be cell permeable and to inhibit the transcription of specific genes, this approach for means of the proteins of specific of this approach for the standard method of specific of this approach for the standard method of specifical to the standard method of specifical to the standard method of specifical to the standard of specifical to th

CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 25
1997:24039 CAPLUS F<u>ull-text</u>
126:32692
Crystal structures of A-DNA duplexes
Wahl, warkus C.; Sundaralingam, Muttaiya
Lab. Biological Macromoleuclar Structure, ohio state L6 ANSWER 36 OF 98 C ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: AUTHOR(S): CORPORATE SOURCE:

ABSTRACT.

ANSTRACT ANSTRACT AND Crystal packing, with the termin of one moi. abutting the shallow growes of symmetry related neighbors, while all other forms (B, Z, and arrented of symmetry related neighbors, while all other forms (B, Z, and arrented of symmetry related neighbors, while all other forms (B, Z, and arrented of symmetry related neighbors, while all other forms (B, Z, and arrangement leads to the formation of shallow groove base multiples that have inhalted than the structure of Daw in compacted states. The chord of shallow grower has a structure of Daw in compacted states. The compact of states is fing in two different sequences came all gower forst as is ing in two different space groups and of different sequence of the base sequence obtained and profit than the states of the different and notal termating fragments some space from the structures of the inhalt of sequence of the base sequence on the structures and went for a still be uncovered. Furthermore, several studies have started to define the minimal sequence of the passes sequence changes or chemical modifications that can interconvert the oligomers between different double-helical conformers (A, B - and Z-form). Overall, it fragments are states and metal ions have attracted considerable attention. There are conserved patterns in the hydration, involving both the grooves and the backbone, which are different from those of considerable attention. There are conserved patterns in the hydration, B-DMA, overall, A-DMA, seems to be more connically hydrated than B-DMA, are the woble apire, the growses or to the phosphate groups of the Sugar-phosphate backbone. Spermine was found to be able to bind extending the growth of the growes or to the phosphate groups of the backbone, or whibit a mixed binding mode. The located metal cattons mixpans is investigated in A-DMA are the woble pairs, yielding cylenic in the growers or the phosphate groups of the backbone, or whibit a mixed binding mode. The located metal contexts, where they different all yarde Univ. columbus, oH, 43210-1802, USA copens (1397), 44(1), 45-63 copens BIPMAA; ISSN: 0006-352 Thinky Index ISSN: 0006-352 Submana; General Review English;

L6 ANSWER 37 DF 98 BIOSIS COPPRIGHT 2004 BIOLOGICAL ABSTRACTS INC. ON STN ACCESSION NUMBER: 1997:420906 BIOSIS FULL-CEAL DOCCUMENT NUMBER: 1997:420907.82109 BIOSIS FULL-CEAL DOCCMENT NUMBER: 1997:420907.8210 BIOSIS FULL-CEAL DOCCMENT NUMBER: 1997:42090.821 Furner, James M.; Baird, Eldon E.; Derry peeter B., CORPORATE SOURCE: 10. Chem. Eng., Calif. Inst. Technol., Pasadena, CA ADSTRACTS SOURCE: 2144 No. 1-2, pp. 0808 300. Hearing Info.: 214th American Chemical Society, (1997) Vol. Meeting Info.: 214th American Chemical Society National Meeting Info.: 214th American Chemical Society National Conference, (Meeting) NOGS-7727. COMERNI TYPE: Conference, (Meeting) Info.: 214th American Conference, (Meeting) Info.: 214th Ame Entered STN: 8 Oct 1997 Last Updated on STN: 8 Oct 1997 LANGUAGE: ENTRY DATE:

my system of the control of the cont L6 ANSWER 38 OF 98 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN ACCESSION NUMBER: 1937-429015 BIOSIS Full-Text DOCUMENT NUMBER: REV199799728218
TITLE: Recognition of G,C-rich sequences in the minor groove of AUTHOR(S): CORPORATE SOURCE: SOURCE:

L6 ANSWER 39 OF 98 CAPLUS COPYRIGHT 2004 ACS ON 5TN DUPLICATE 26 ACCESSION NUMBER: 1996:498677 CAPLUS $\overline{\mathrm{Eull}}_{-\mathrm{Text}}$ Entered STN: 8 OCT 1997 Last Updated on STN: 21 Nov 1997 DOCUMENT TYPE:

DOCUMENT NUMBER: 125;188569

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LG ANSWER 40 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 27
ACCESSION NUMBER: 1296:494547 CAPLUS FULLTEXT
125:186558 TITLE: 126:18658 TITLE: 1

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L6 ANSWER 41 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 28
ACCESSION NUMBER: 1996.42129 CAPLUS FULL-EEX
DOCUMENT NUMBER: 125:160311
TITLE: Brinding site size 1 mit of the 2:1 pyrrole-imidazole
polyamide-DNA motif not E; Dervan, Peter B.
CORPORATE SOURCE: GORGOGE: GOME, CALIFORNIA INST. Technol., Pasadena, CA, 9125, USA

SOURCE: United States of the National Academy of Sciences of the CODEN PRASES. ISSN: 0027-8824
DUBLISHER: COODEN PRASES. ISSN: 0027-8824
DUBLISHER: National Academy of Sciences
LANGAKET TYPE: Dubrial Academy of Sciences
LANGAKET TYPE: English
ABSTRACT: English
ABSTRACT: Six polybaides containing N-methylimidazole (Im) and N-methylpyrrole (Py) amino acids can be combined in antiparallel side-by-side diem or growe of sequence-specific recognition in the minor growe of sequence paymed seven sequence-specific recognition in the minor growe of the recognition in the minor grower of the recognition of a sequence specific minor drower of mental society (1996).

LE ANSWER 42 DF 98 CAPULS COPYEMITY 2004 ACS ON STR ACCESSION NUMBER: 1986:137922 CAPULS ENDIAGRAMES AND STRACTICE SOURCE: 1986:137922 CAPULS ENDIAGRAMES AND STRACTICE SOURCE: 1986:137922 CAPULS ENDIAGRAMES AND STRACTICE SOURCE: 25.5671

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The binding data for ImpyPy—PPyPyPop, which has been shown previously to Brita DMA in a harppin conformation, indicates that v-aminobutynic acid does not effectively link polyamide binding subunits in an extended conformation. These results expand the binding site size angetable with purofiel—indicate polyamides and provide structural elements that with provide polyamides and provide stargeted to other DMA sequences.

LG ANSWER 44 OF 98 CAPLUS COPPRIGHT 2004 ACS ON STN DUPLICATE 30

ACCESSION NUMBER: 1956:35423 CAPLUS EUI]—EEEE
TITLE: RECOGNITION of 5'-(A,T)GG(A,T)2-3' Sequences in the Recognition of 5'-(A,T)GG(A,T)2-3' Sequences in the Recognition of OF DAW by Hailpin Polyandes Parks, Withelle E: Barid, Elon E: Dervan, Peter B. OF PARTS, OF PARTS,

_aBSTRACT: A series of four hairpin pyrrole-imidazole polyamides,

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LG ANSWER 45 OF 98 ACCESSION NUMBER:
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125/3 AUTHOR(S): CORPORATE SOURCE: SOURCE:

PUBLISHER:

AMERICAN Chemical Society

DOCUMENT TYPE:

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CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 32 1996:354120 CAPLUS FULLTRAXT 125:1666:34120 Solid Phase Synthesis of Polyamides Containing L6 ANSWER 46 OF 98 C ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

Abbind:
The solid phase synthesis of sequence specific DNA binding
The solid phase synthesis of sequence specific DNA binding
acids is described. Two monomer building blocks, Boc-Py-OBL ester and Boc-Im
acids is described. Two monomer building blocks, Boc-Py-OBL ester and Boc-Im
acid, are prepared on a 50 g scale without column chromatog. Using com,
available Boc-b-alanine-Pan resin, cycling protocols were optimized to
afford high stepwise coupling yields (59%). Deprotection by aminolysis
afford with stepwise coupling yields (59%). Deprotection by aminolysis
afford by to tollong quantities of polyamide. Solid phase methodol.
"***binding*** polyamides which can be synthesized and analyzed with
regard to DNA holyamides which can be synthesized and analyzed with
ITH sold phase synthesis of a representative eight-residue polyamide
is reported. Inidazole and Pyrrole Amino Acids
Raide, Eldon E.; Devran, Peter B.
Dyvison of Chemistry and Chemical Engineering,
CN15 of 18 AUTHOR(S): CORPORATE SOURCE: SOURCE:

amino

LG ANSWER 47 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 33
ACCESSION NUMBER: 1296:34880 CAPLUS FAIl—TEXT
DOCUMENT NUMBER: 125:28430
TITLE: TRITERATIONS OF Spermidine and methylspermidine with DNA Studied by nuclear magnetic resonance
Self-diffusion measurements.
AUTHOR(S): Andreasson, Bo; Nordenskioeld, Lars; Schultz, Johan Stockholm, Stockholm

LAMQANGE:

ABSTRACT:

ABSTRACT:

The www bused field gradient self-diffusion method has been used to study the self-diffusion of the Polyamine spermidne. The the pulyamine self-diffusion coefficient, D. was measured in soins. of calf thymus DNA prepared from nucleosome come particles (with an average length of LIZO base prepared from nucleosome core particles (with an average length of LIZO base prepared from nucleosome core particles (with an average length of LIZO base prepared from nucleosome core particles (with an average length of LIZO base with particles with a service of polyamine to self-diffusion coefficient of the concentration action quotient. D/Do (where Do self-diffusion coefficient for the polyamine, not association of indicating similar affinities for DNA. A large influence on the measured self-diffusion coeffic, was detected for methylspermidine in NaDNA solfs. With different concis. Of NaCl. Which shows a considerable salt effect on the polyamine-DNA association No notable differences in their interaction, the results showed that the polyamine into MaDNA. In dictaring that the polyamine into MaDNA. In titration extro. Of methylspermidine into MaDNA in titration extro. Of methylspermidine into magnesium effections that the interaction with of lectrostatic polyamine into magnesium ellectrostatic paled with the Open of lectrostatic nature, with no electrostatic polyamine.

LG ANSWER 48 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1295.135683
TITLE: 125.135683
TITLE: 125.135683
TITLE: 125.135683
TITLE: 125.135683
AUTHOR(S): 126.4006 L. JOHN by a major and minor groove birding ligand and minor groove birding ligand and minor groove birding ligand and makel getkman Lab. Chem. Synthesis.
Annole and Makel getkman Lab. Chem. Synthesis.
SOURCE: Annole and Makel getkman Lab. Chem. Synthesis.
Angewanter Chem. International Edition in English CODEN. ACCESSION ACCESSIO

PUBLISHER:

VOHANING

DOCUMENT TYPE:

LANGUAGE:

English

ASSTACT:

The authors report here that hairpin polyamide linked to an 11-mer

oil gonucleotide specifically and simultaneously binds the

nanomolar concentration

CODEN: BMCCEP; ISSN: 0968-0896

PUBLISHER:
FIRST TYPE:
DOCUMENT TYPE:
The data on-critical mapPy-Dp (Im = N-methyl) imidazole-2minestigated. A Day restriction fragment was designed which overlapped a minor
contained two triple helix sites, one of which overlapped a minor
contained two triple helix sites, one of which overlapped a minor
contained two triple helix sites, one of which overlapped a minor
contained two triple helix sites, one of which overlapped a minor
contained two triple helix sites, one of which overlapped a minor
contained two triple helix sites, one of which overlapped a minor
contained two triple helix sites, one of which overlapped a minor
contained two triple helix sites, one of which overlapped a minor
contained two triple helix formation is the polyamide dimer.

polyamide dimer indiging in the minor groove
plant at an overlapping site. No cooperative effect of the
polyamide dimer on the equilibrium association constant of the oligonucleotide was
observed LG ANSWER 49 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 34

ACCESSION NUMBER: 125:161351
TITLE: 125:161351
TITLE: 125:161351
TITLE: drime and an oligonacleotide in the minor and ano proves of DAM

AUTHOR(S): Parks, wichelle E: Dervan Peter B. Parks, wichelle E: Dervan Peter B. Dasadens, CA, 91155, USA

SOURCE: 04:00-0125, USA

SOURCE: 04:00-0125, USA

PUBLISHER: 10:00-0125, USA

PUBLISHER: 10:00-0125, USA

SOURCE: 10:00-0125, USA

SOURCE: 10:00-0125, USA

DASAGOMENT TYPE: 10:00-0125, USA

DASAGOMENT TYPE:

LG ANSWER 50 OF 98 CAPLUS COPPRIGHT 2004 ACS on STN DUPLICATE 35
DOCUMENT NUMBER: 125:12081.9
TITLE: A microgonic copen pentaza pentabutylamine and its increations with DNA according to the pentaza pentabutylamine and its increations with DNA according to the pentaza pentabutylamine and its increations with DNA according to the pentage of the pentag PUBLISHER: DOCUMENT TYPE:

DOCOMEAN TYPE:
JOURNAL
LANGLAGE:
CASREAT 125:108019
OTHER SOURCE(S):
GASREAT 125:108019
OTHER SOURCE(S):
ASTRACT:
He Central pyrrole of a site-selective DAM minor
****Sproove**** binding tripyrrole peptide (1) has been attached to
****Sproove**** binding tripyrrole peptide (1) has been attached to
****Portected penta-statematocsanic carld (17) via a - (CHP)3-HNCO-(CH2)3-Tinker to
provide 19, subsequent deportection provided the pentraaza microgonotropen 4.
The polyamine moiety of 4 reaches out of the minor
****Sproove**** and binds to the phosphare backbone of DAM.
****Uninjng**** of 4 to the hexadecameric duplex of(GCCCCAMATTICGCS) with 4 that the latter forms both 1:1 and 2:1 dsDAM. complexes. Certain aspects of the structure of 4:dCCCAMATTICGCS) with 4 that the latter forms both 1:1 and 2:1 dsDAM. complexes. Certain aspects of the structure electrophoretic mobilities of Ax-124 DAM digasted with Healt II
electrophoretic mobilities of Ax-124 DAM digasted with Healt II
about a greater conformational change in the DAM fragments than observed previously with other microgonotropens.

98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 36
1996-48506-7000 CAPLUS <u>Full-text</u>
125:16.376 CAPLUS <u>Full-text</u>
125:16.376 CAPLUS <u>Full-text</u>
125:16.377 CAPLUS <u>Full-text</u>
Recognition of DNA by designed figads at subnanomolar concentrations.

Townser, John W.; Baird, Eldon E.; Dervan, Peter B. DIV. Chem. Chem.; Elgo., California Inst. Technol., Nasadena, Co., 97:1896, California Inst. Technol., CAPLUS C L6 ANSWER 51 OF 98 C ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: AUTHOR(S): CORPORATE SOURCE: SOURCE:

PUBLISHER: Macmillan Magazines
DOCUMENT TYPE: Journal LANGAGE: English English Mastract: English Mastract: Lands Mastract: Asstract and Mastract Asstract A

and potentially in human amoditine. Simple rules have been developed to control retrieval by the human pecificity of simple rules have been developed to control the subjudged of the subjudged o

LG ANSWER 52 OF 98 SCISEARCH COPYRIGHT 2004 THOMSON ISI ON STN
ACCESSION NUMBER: 95:238820 SCISEARCH FULLI-LEXT
THE GENTINE ARTICLE. UA092
TITLE: UA092
TITLE: UA092
AUTHOR: ANNE SELF-DIFFUSION STUDY OF THE INTERACTIONS BETWEEN
SPERMIDINE AND OLIZONUCCEOTIDES
AUTHOR: AND OLIZONUCCEOTIDES
CORPORATE SOURCE: UNIV STOCKHOLM, DIV PHYS CHEM, S-10691
STOCKHOLM, SWEDEN; UNIV NEBRASKA, DEPT CHEM, LINCOLN, NE, SWEDEN; USA
SOURCE: SWEDEN; USA
SOURCE: ISSN: 0006-3525.
ISSN: 0006-3525.
TOOGNATY PPE: ATTICLE; JOURNAIL THE CORPORATION OF THE CHEM, LINCOLN, NE, CHEM, CHEM, CHEM, CHEM, LINCOLN, NE, CHEM, CHEM,

LIFE ENGLISH 35 FILE SEGMENT: LANGUAGE: REFERENCE COUNT: DOCUMENT TYPE: FILE SEGMENT:

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

ABSTRACT:

ABSTRACT:

ABSTRACT:

Spel-diffusion coefficients have been determined by pulsed field gradient mar methods for spermidine in solutions of the oligonucleotides (ICO)(4) and dischardine in solution of (ICC) (4) self-diffusion behavior of spermidine in solution of (ICC)(4) is very similar to that observed previously for methylspermidine (Completely Memchylster spermidinie). Moreover, the self-diffusion behaviors of spermidinin in solutions of G(GC)(4) and d(GCAATICC) are also quite similar indicating that there is no significant influenceon on self-diffusion of oligonucleotide base composition. Eurthemnere, self-diffusion coefficients of the concentration, and no measurable dependence on soligonucleotide concentration, and no measurable dependence on soligonucleotide concentration. (C) 1996 John whiley & sons; Inc.

LG ANSWER 53 OF 98 CAPLUS COPPRIGHT 2004 ACS on STN DUPLICATE 37
ACCESSION NUMBER: 1251-1061-38564 CAPLUS FULLI-LEXE
1251-106335 FOR APPLICATE TO THE TO THE

PUBLISHER: DOCUMENT TYPE: LANGUAGE: ABSTRACT:

Abstracting polyamides containing N-methylimidazole and N-methylpyrrole free-fried polyamides containing N-methylimidazole and N-methylpyrrole amino acids bind sequence-specifically to double-helical DNA amino acids bind sequence by forming side-by-side complexes in the minor groove.

Simple parting rules relate the amino-acid sequence of a pyrrole-imidazole text. Cargic as mino-acid sequences of a pyrrole-imidazole text. Cargic as mino-acid sequences have sequences have been provided and acids from the previously that two simple his binding of the tracet sequence, by and shown to set for the tracet sequence, we set out to determine whether different types of linkers outlide be used in a simple mol. to specific but sequences. A nine-ring polyamide mol. that would brind to specific but sequences. A nine-ring polyamide mol. Planaine and paralloburyric acid has been synthesized and shown to specifically brind a designated in the base planting optimally brind and assignated in the pare planting to the sequence and shown to the samino acids raminoburyric acid and should be an aminoburyric acid and should be also and extended hairpin conformation. The amino acids raminoburyric acid and should be compared to generate a mine-base part sample and extended compared to generate a nine-trap polyamide that specifically indefining by molecular that specifically recognizes an inne-base process.

L6 ANSWER 54 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 38 ACCESSION NUMBER: 1997:13785 CAPLUS <u>Full-text</u>

selective DNA binding of (N-alky) amine)-substituted mides and dimides to G4-crift DNA LU, Zhi Ken, Hecker, Karl Hi, Rill, Randolph L. Tapliken, Hecker, Karl Hi, Rill, Randolph L. Tapliken, Hecker, Karl Hi, Rill, Randolph L. Tapliken, Chem Lins, Moi Biophysics, Florida State Univ., Taplianssee, FL. 3306–3006, USA, Journal of Biomolecular Structure & Dynamics (1996), A(1), 31-339 (COBE), 18506; ISSN: 0739–1102 Adenine Press AUTHOR(S): CORPORATE SOURCE: COCUMENT NUMBER: SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE: ABSTRACT:

ABSTRACT:

Alkylamine-substituted naphthalene imides and diimides bind ***DMA*** by intercalation and have applications as anticancer and applications as anticancer and applications as anticancer and applications and applications between the interest circumparts and applications and applications between the interest circumparts and applications and applications between the interest circumparts and application are comparable to a determined spectroscopically and by equilibrium dalysis. In agreement with the above initiated and dilimide strongly prefer to intercalate into steps containing at the binding studies inference and association are comparable to or consts. on DNA base composition are consistent wind and application are comparable to or alastic circles and and applications and appendications and applications and applications and applications and applications and applications and applications and application

30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

L6 ANSWER 55 OF 98 C ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

98 CAPUS COPYRIGHT ZOOA ACS ON STW
1296.212462
Extending the recognition site of designed minor groove binding molecules
Geierszanger, Bernhard H.; Wrksich, Milan; Dervan, Peter B.; Wemmer, David E.
ODDEN: NESEW, ISSN: 1072-8368
NATURE STRICTURING BIOLOGY (1996), 3(4), 321-4
CODEN: NESEW, ISSN: 1072-8368
JOURNAL PUBLISHING CO. AUTHOR(S):

CORPORATE SOURCE: SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE: ABSTRACT:

A linked, imazole/pyrrole minor-groove ligand has been shown to bind sequence specifically to a 13 base-pair target sequence in a mixed 1:1/2:1 mode.

L6 ANSWER 56 OF 98 C ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

98 CAPUUS, COPYRIGHT 2004 ACS on STN DUPLICATE 39
1166.78638 CAPUUS <u>LIII.-text</u>
116.28138 CAPUUS <u>LIII.-text</u>
116.28138 CAPUUS <u>LIII.-text</u>
116.28138 CAPUUS <u>LIII.-text</u>
117. The crystal structure of the d(cc)3 and polyamine —
1. The crystal structure of the d(cc)3 and for his mosper mine complex, North CORPORATE SOURCE: SOURCE:

AUTHOR(S):

PUBLISHER: Classiff Council Control Council Co

0.540.540.5 mm3, x-ray intensity data were collected up to 1.0

The resolution Two thermospermine mois and a magnasium carrion were bound to the resolution Two thermospermine mois and a magnasium cattor where left-handed explained. The refer left-handed explained the resolution mad two thermospermine mois and a magnasium cattor nettrainisted the note that grades of the phosphate groups of the d(cd3) moi.

Herrich the first case in which it was determined by x-ray crystallogy analoused the contraction of the complexes with PAC(2), spermidine and spermine. This is the first case in which it was determined by x-ray crystallogy analoused the contraction of the complexes with PAC(2), spermidine and spermine related two extensions and the complexes with the resolution related two extensions and the complexed d(cd3) and the complexed the phosphate groups of a single d(cd3) and strand at the minor group breaken the d(cd3) and coordination bond was found between the d(cd3) and.

LG ANSWER 57 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 40
DACCHESION NUMBER: 1996:41436 CAPLUS FUIl-TEXE
125:104281
TITLE: 125:104281
TITLE: A TABLE STRIC ACTIVITIES OF AUTHORISES AND AUTHORISES

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

The all thylatines and their related boron derivs. demonstrated potent cytotoxicity against the growth of murine and human tissue cultured cells. These agents did not necessarily require the boron atom to possess potent cytotoxic action in certain tumor lines. Their ability to suppress tumor cell growth was based on their inhibition of UNA and protein synthesis was reduced because purine synthesis tumor cell synthesis. And synthesis was reduced because purine synthesis and addition ribonucleoride reductase and nucleoside kinase artivities were reduced by the agents which would account for the reduced divrip pools. The DNA template or mol. may be a target of the drugs with regard to binding of the drug to nucleoside bases on intercalation of the drug to binding of the drug to nucleoside bases on intercalation of the drug between ***TOMA*** fragamentation with reduced DNA viscosity. These effects would contribute to overall cell death afforded by the agents.

LG ANSWER S8 OF 98 CAPLUS COPPRIGHT 2004 ACS on STN DUPLICATE 41
ACCESSION NUMBER: 1995:89260 CAPLUS FUITLE: 124:8499
TITLE: 0,Cylic polyamides for recognition in the minor groove of DNA
COMPONED: 0, Junhpaneng; Parks, Michelle E.; Dervan, Peter B.
Beckman Inst., California Inst. Technol. Pasadena, CA 91125, USA california Inst. Technol. Pasadena, Proceedings of the National Academy of Sciences of The National Academy of S

Small And is that specifically bind with high affinity to any small and is that specifically bind with high affinity to any small and is the small and potentially in the human genome would be useful tools in moi. biold and posterially in the human genome world simply and provide an extendially a later the sequence specificity of small and posterially a later the sequence specificity of mentally provide an ino acids. Crescater-shaped polymentes bind as antiparallel dinners with each polywander making specific contacts with each strand on the floor of the minor groove. Cyclic ****Polyandes*** sequences at subnanomal ar concras.

L6 ANSWER 59 OF 98 C. ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 42
1195/386879 CAPLUS FULI-Text
1141.340/4
Selective Stabilization of DNA Triple Helixes by
Selective Stabilization of DNA Triple Helixes by
BECURG, Christophe, Nguyen, Chi Hung, Mergny,
Dean-Louis; Sun, Jian-Sheng; 8f sagni, Emile;
Garestier, Therese, Helene, Claude
Laboratoric de Biophysique, Museum National d'Histoire
Natural le paris, 15231, Fr.
JOHNIAN OF TRANSPORTED
117(41), 10012-19 CORPORATE SOURCE: AUTHOR(S):

CODEN: JACSAT; ISSN: 0002-7863 American Chemical Society Journal English

LG ANSWER 60 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 43
ACCESSION NUMBER: 123:104203
TITLE: 223:104203
TITLE: 2

PUBLISHER: DOCUMENT TYPE: LANGUAGE: ABSTRACT:

Assiduct: that is represented frequently in functionally important sites involving protein-DNA interactions is Gig/GCA, suggesting that the involving protein-DNA interactions is Gig/GCA, suggesting that the structure of d(coardo)/d(coardo) for regulatory processes. The 2.5 A resolution structure of d(coardo)/d(coardo) for the gal operan. Government of the gal operan coardo in the crystal lized with spemmine, is described herein. The crystal of Bulk, revealing a close packing of computered in a crystal of Bulk, revealing a close packing of computered in a crystal of Bulk, revealing a close packing of computered in a crystal of Bulk, revealing a close packing of computered in a crystal of Bulk, revealing a close packing of computered in a crystal of Bulk. Resulting a close packing of proper part opening and shearing at the resulting in a novel non-wason-crist hydrogen-bunding scheme between adenine and thymine in the GIG region may be a critical factor conferring sequence selectivity on the crystal scructure of speemine with attive Bulk, setting a crystal scructure of speemine with attive Bulk, setting a crystal scructure of speemine with attive Bulk, setting a crystal scructure of speemine with attive Bulk, setting a crystal scructure of speemine with attive Bulk, setting a crystal scructure of speemine with attive Bulk, setting a crystal scructure of speemine with attive Bulk, setting a crystal scructure of speemine with attive Bulk, setting a confision of speemine.

LG ANSWER 61 OF 98 CAPLUS COPPRIGHT 2004 ACS ON STN DUPLICATE 44
ACCESSION NUMBER: 12965:13674 CAPLUS FULI-LELY
DOCUMENT NUMBER: 124:110409
TITLE: 124:110409
TITLE: Physical nucleic acid (PAN): a model structure for the primordial genetic material; primordial genetic material; CORPORES SOURCE: Dep. Biochem. 8, Panum Inst., Copenhagen, Den. Microbiologia (Madrid) (1995), 11(2), 209-16 COPEN. MICROBIOGIA: NORTH COPENHAGE. 15SN: 0213-4101 CAPLUS CAP

PUBLISHER: DOCUMENT TYPE: LANGUAGE: ABSTRACT:

The authors have recently described a novel OMA analog, peptide crisis of the crisis of the crisis of the discussion of the crisis of the crisis of the discussion of the crisis of the critical of the crisis of the critical of the crisis of the critical of the

LANGUAGE.

ENGINE.

ENGIN.

ENGINE.

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ENG LG ANSWER 62 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 45
ACCESSION NUMBER: 19945502210 CAPLUS FULTLEXT
111:102110
TITLE: 112:10210
TITLE: 113:10210
TIT

LG ANSWER 63 OF 98 CAPLUS COPPRIZHT 2004 ACS ON STN DUPLICATE 46
ACCESSION NUMBER: 120:137887 CAPLUS FUIT-EXX
120:13887 CAPLUS FUIT-EXX
1

ASTRAL:
ASTRAL

of 6b in the A + T-rich region involving five base pairs (5.467) ### (6.47) ### (6.47) #### (6.47) ####

LG ANSWER 64 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 47
ACCESSION NUMBER: 123:253316 CAPLUS F<u>ull-text</u>
123:253314 CA DOCUMENT TYPE: LANGUAGE: ABSTRACT:

Assigned with many refs. Application of linear dichroism (LD) and CD in nucleic acid research is illustrated by recent results sineed at answering specific scructural problems in the interaction of DAA with mois. On the parties are the authors first consider the circumstances under which 100 in mortances. The authors first consider the circumstances under which 100 in mode in the miner groover to major the authors are mode in the miner groover to major with an extension of this problem the authors refer to the switch between groove binding and internal action of internal actions refer to the switch between groove binding of all pricines and trigonal returning similar ligands such as explore the use of LD and CDC in determination of the structure of the complex formed between the novel peptide nucleic acid consisting of normal actions of the structure of the complex formed between the decoylose-plosophate backbone of DAG. Finally, the structure and internal actions the influence of the presence of internal actions, groove the particular the influence of the presence of internal actors, groove

CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 48
11995:102135 CAPLUS FULL-CEXT
1221:181054
THE INTERACTION OF INTERCALLARDS and groove-binding agents with DNA triple-helical structures: the modifications and sequence modifications and sequence structure, DNA backbone modifications and sequence structure, Full Shijie, W. D.; Mizan, Shaikh; Tanious, Farial A.; Yao, Shijie, Chem., Georgia State Univ., Atlanta, GA, 30303, p.cp. L6 ANSWER 65 OF 98 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

Journal of Molecular Recognition (1994), 7(2), 89-98 CODEN: JMORE4: ISSN: 0952-3499 Journal; General Review English CORPORATE SOURCE: DOCUMENT TYPE: LANGUAGE: ABSTRACT: AUTHOR(S): SOURCE:

Applyment with S6 refs. The effects of ligand structure and properties, which we have been properties, and pay acquered on the same payers in interaction of against yof well-known groove-binding agents and antiproved by the properties and antiprove binding agents and antiprove binding above been evaluated by there and melting expts, and mol. modeling. Both methylphosphonate evaluated by there and melting expts, and mol. modeling.

and phosphorothioate substitutions generally destabilize Dwa duplexes and phosphorothioate substitutions generally destabilize Dwa duplexes were triplexes. Modified duplexes can be strongly stabilized by both groovement in the large intercal address, whereas triplexes are printed by the stabilized b

LANGANGE:

ABSTRACT:

ABSTRACT:

ABSTRACT:

ABSTRACT:

AND MALIE-'98 human melanoma cells the polyamine analogy yamine becapture in Malie-'98 human melanoma cells the polyamine decaboxylase, and biorescutte monyamine-motibolity and statements properly as the polyamine decaboxylase, and increases the monyamine-motibolity of monyamine-motibolity as substantial (454-fold) accumilation of SSAT MRNA. By Northern blot as substantial (454-fold) accumilation of SSAT MRNA. By Northern blot as substantial (454-fold) accumilation of SSAT MRNA. By Northern blot region or human SSAT CONA: a minot high-mol-, weight (4 paper. 315, klobases) species region or human SSAT CONA: a minot high-mol-, weight (4 paper. 315, klobases) species region or human SSAT CONA: a minot high-mol-, weight (4 paper. 315, klobases) species region or human SSAT CONA: a minot high-mol-, weight (4 paper. 315, klobases) species compared forms grand or human SSAT CONA: a minot high-mol-, weight (4 paper. 315, klobases) species (4 paper. 315, klobases) species region or human SSAT CONA and the reason with respect of the transferry of the paper.

Make prepare, form A is tought to represent a precursor to form C.

Monger poly(A) tract and as such may represent a precursor to form C.

Accumulation of SSAT MRNA was a result of increase que transferry by the statement of the sSAT MRNA was a result of increased gene transferry of SSAT MRNA. Nuclear run-on studies indicated by Assat and a statement of the same a transferry forms. The polyamine was minor of the same 3 transcription and stransferry forms. The polyamine was minor of the same 3 transferry forms. The polyamine was minor of the same 3 transferry forms in high transfer of the SSAT MRNA with minor polyamine pools with high transfer effective than the analog at increasing enzyme activity the species decaded based sas monyal levels by prolyamine as mony and prepared the polyamine

ABSTRACT:

Polyzmide nucleic acids (PMAs) have emerged as useful agents for recognition of single—and double-stranded nucleic acids. Interveside

double-stranded nucleic acids. Interveside

hydrogen bonds between the amide carbonyl nearest the nucleobase and chain NH

movieties provide inherent stability to the helical conformation of PMA 1.

Woying the amide carbonyl away from the nucleobase to the backbone, and

replacing it with a methylhere group, results in 2 lacking the stabilizing

hydrogen bond. Oligomers of 2 do not interact with DMA. Modeling

suggests that 2 displays a more extended conformation than 1, and nucleobase

orientation is discupted in 2 in the absence of a cDMA strand.

Structures for 1-110.cntdot.DMA and (1-110.cntdot.DMA structure, the two PMA strands

form the complementary wasson-crick paried strand and the Hoogsteen base-paired

strand in the major groove of the 1.cntdot.DMA structure, the two PMA strands are proposed to bind antiparallel to one

another in (1-110)2.cntdot.DMA structure. The factors suggested to

account for the taxbality of this 2.1 complex are (1) a Mydrophobic attraction

between two PMA backbones and (ii) a favorable electrostatic effect resulting

from replacement of a phosphodiester backbone by a neutral peptide backbone.

L6 ANSWER 68 OF 98 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN ACCESSION NUMBER. PRELID93:450223 BIOSIS EUIL-TEEXT DOCUMENT NUMBER: PRELID9396095123 and their interactions with DNA: 3. TITLE:

AUTHOR(S):

PREVISES SUBSILES.

MICROGONOTROPERS and their interactions with DNA: 3.

Structural analysis of the ILI complex of dicocadarTraccol-2
and dien-microgonotropen c by 20 NMR spectroscopy and
restrained molecular modeling.

Blasko, Andrei: Browne, Kenneth A.; He, Gong-Xin; Bruice,
Thomas C. [Reprint author]
Dournal of the American Chemical Society, (1993) Vol. 115,
No. 16, pp. 7080-7092.

Articl ACSAT. ISSN: 0002-7863.

Articl ACSAT. ISSN: 0002-7863.

Last updated on STN: 6 oct 1993 CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: LANGUAGE: ENTRY DATE:

ABSTRACT:
The solution structures of (CGCAAATTICGO)—2 and the 1:1 complex of dicCGAAATTICGO)—4 will the solution structures of (CGCAAATTICGO)—2 and the 1:1 complex of dicCGAAATTICGO)—4 will dien-microgonotropen—5 (Sc) have been determined by 1D and 2D 1H MMR spectroscopy and cestrained molecular modeling on the warmy warms and two resonances for the free MA 319 for the resonances for the free molecular modeling for the resonances for the free molecular modeling in the MAT-rich molecular in mino pronons a saymmertic type of binding in the MAT-rich molecular in mino pronons a saymmertic type of binding in the MAT-rich molecular in mino pronons a state of the dicCGCAAATTICGO]—2:s.c. complex have (i) perrole rings A and be top and a span of GGCCAAATTICGO]—2:s.c. complex have (i) perrole rings A and be top and a span of GGCCAAATTICGO]—2:s.c. complex have (ii) perrole rings of the dicCGCAAATTICGO]—2:s.c. complex have (iii) perrole rings of the minor groove with perrole rings of the minor groove with a minor groove with a minor groove with a minor groove with a minor with only two pyrrole rings in the minor groove with a minor groove with a minor with a groove with a minor groove wi

Upon solvation, the length of the duplex increases by 0.1 ANG /bp for both the dodecamer ampared to the case of crystal structures of free DNA and distanycin-complexed DNA.

LG ANSWER 69 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 52
ACCESSION NUMBER: 1193:181208
TITLE: 1193:181208
TITLE: Microgenotropers and their interactions with DNA. 1.
MICROGENOTROPERS and their interactions with DNA. 1.
MICROGENOTROPERS and their interactions with DNA. 1.
MICROGENITY OF PERFORMANCE CONTROL OF PERFORMANCE OF THE CONTROL OF THE

English CASREACT 119:181208 DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): GRAPHIC IMAGE:

CONH Ne CONH (CH2) 3NMe2

ASPITACT:

ASSITACT:
ASSITACT ASSITACT
ASSITACT ASSITACT
Exploration of the novel idea of employing a pyrrole nitrogen of a tripyrole peptide minor growe binding agent to carry catalytic entities to the phosphates and major growe to catalytic entities to the phosphates and major growe to catalytic entities to the phosphates and major growe to catalytic entities of the catalytic entities of the catalytic entities of the catalytic entities of the catalytic entitle and anion terminal formy! functionalities of the interpolation of the which has greater stability in water than does Do. The synthetic design allows the N-Mes substituent on the central pyrole of I (R = Ne), to be replaced by connectors terminating in a dien ligand (LI). The binding of I (R = Ne) is about 20-fold weaker than the binding of II to calf thymus stability and poly(dL-dC) due to the contribution of the weblod was terminated by base I footprint anal. Specific inhibition of the substituent of the 15-122pl 16-be per restriction fragment of pass 3 observed at each of the four potential Art-rich binding of I (R = Ne) as a so observed at each of the four potential Art-rich binding of I (B = Ne) as a binding at short heteropolymeric Affarence and a second beneared by as a footprinting anal . G the Binding I (B = Ne) as a binding at short heteropolymeric and binding at short

L6 ANSWER 70 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1993-148820 CAPLUS FUIT-TEXT
DOCUMENT NUMBER: Enhanced ligation of DNA with a synthetic effector
TITLE:

molecule Zuber, Guy; Sirlin, Claude; Behr, Jean Paul Lab. Chim. Genet., Fac. Pharm., Illkirch, F67401, Fr. AUTHOR(S): CORPORATE SOURCE:

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SOURCE:
```

115(11), 4339-40 000EN: JACSAT, 15SN: 0002-7863 000EN: JACSAT, 15SN: 0002-7863 English

DOCUMENT TYPE: LANGUAGE: ABSTRACT:

L6 ANSWER 71 OF 98 C ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: AUTHOR(S):

CORPORATE SOURCE: SOURCE:

98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 53
119:3440309
Inhibitors of human immunodeficiency virus integrase Fesen, Mark R. Kohn, Kurt W.: Letcurtre, Francois; Pownier, Vves. Power Treat., Natl. Cancer Inst., Bethesda, MD, 20892, USA
Proceedings of the National Academy of Sciences of the United States of America (1993), 90(6), 2399-403
200DEN: PMASA6; ISSN: 0027-8424,

DOCUMENT TYPE: LANGUAGE: ABSTRACT: In an effort to

AMSTRACT:
In an effort to further extend the number of targets for development of antiretroviral agents, we have used an in vitro integrase assay to investigate a variety of chems. Including topoisomerase inhibitors, antimalarial agents, but binders, naphthogoliones, the flavone agreement through adverting and caffers acid phenettyl ester as potential human immunodeficiency virus type 1 integrase inhibitors. One results show that although several topoisomerase inhibitors and campitor and camprohecin—are potent integrase inhibitors, other topoisomerase inhibitors, ench as an quercetin—see potent integrase inhibitors, other topoisomerase inhibitors, other topoisomerase inhibitors, other timeralator directalisium, are also active. However, DAA binding does not correlate closely with integrase inhibitors spermine, spermine, and distanctin and the bitaine DAA minor.

Topoove* binders spermine, spermine, and distanctin have no effect, whereas the non-DAA binders pringed and of compound that inhibited the integrase caffeic acid phenethyl ester

Topoove the integrase caffeic acid phenethyl server

Topoove the integrase of the enzyme and the enzyme and the polygneater of the enzyme and the polygne

L6 ANSWER 72 OF 98 (ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 54
1933:207741 CAPLOS F<u>ull-rext</u>
DAN unwinding upon strand-displacement binding of a thynic substituted polyamide to double-stranded DAN cheny, Dmitry Y: selecteriovskii, Borris P.; Frank Kamericskii, Maxim P.; Egpolm, Midhali Durchardt, Ole Berg, Maxow, 12188, Russia. Practer E. Instancy Center, Mostow, 12188, Russia. Practer E. Mostow, Of the Artifolm Academy of Stences of the National Academy of Stences of the Durchard Content Parkade, 155N: 0027-8424, 90(5), 1667-70 AUTHOR(S):

CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE: LANGUAGE:

Consisting of thymines statehed to a mainostrylyllysine backbone bind consisting of thymines statehed to an aminostryllyllysine backbone bind strongly and sequence-selectively to adenine sequences of orligourulectides and double-stranded box (visits or P. E. et al. 1991). It was concluded that the binding to double-stranded box as accomplished strand was accomplished strand with a strand displacement. In which the PNA bound to the wasson-crick complementary adenine-containing strand was extranded in a virtually 18 signification strand whereas the thymine-containing strand was extranded in a virtually 18 signification strand configuration. This model may provide a general way in which to obtain sequence-specific recognition of any sequence in double-stranded DNA by Watson-Crick Bydrogen-bonding base—configuration, and it is struct paramount to rigorously establish this such results from microscopy ar reported. Furthermore, it is shown that binding of PNA ectronia and PNA-PNA complex, which is concentration for approx, one turn of the double help to base pairs. The DNA-PNA complex, a small portion of DNA mols. Show complex formation at NASI concentration infiger than 40 mm), is exceptionally with the concentration in the concentra

LG ANSWER 73 OF 98 CAPLUS COPPRIGHT 2004 ACS ON STN DUPLICATE 55
ACCESSION NUMBER: 1993:207735 CAPLUS FUI]—LEXT
DOCUMENT NUMBER: 1207735 CAPLUS FUI]—LEXT
TITLE: 1807.735 CAPLUS FUI]—LEXT
TITLE: 10.07735 CAPLUS FUI]—LEXT
TO CAI f thymus DNA
CORPORATE SOURCE: Noral d Do.
Nation Mercell Dow Res. Inst., Cincinnati, OH, 45215, USA
NUCLEOSIGES & Nucleotides (1993), 12(1), 31–7
DOCUMENT TYPE: DOCUMENT NUMBERS ISSN: 0732-8311, 12(1), 31–7
DOCUMENT TYPE: FURTHER SOURCE: NUMBERS ISSN: 0732-8311, 12(1), 31–7
DOCUMENT TYPE: FURTHER SOURCE: FURTHER

Underder Medical English

Asymptote Property of polyamines to displace the minor The ability of polyamines to displace the minor The ability of polyamines to displace not superficiely than the Manines and Manines are suppers to the Manines and Manines and Manines are suppers that polyamines probably bind been in the """ is, however, sensitive to estilidium bromide and the """ suppers that polyamines probably bind Dea, in the suppression of power was minor and propamines probably bind Dea, in the """ in the manines of propamines probably bind Dea, in the """ in the manines of propamines and manines are propared to the manines of propamines and manines are propared to the manines of the manines are propared to the manines of the m

LG ANSWER 74 OF 98 CAPULS COPYRIGHT 2004 ACS ON STN DUPLICATE 56
ACCESSION NUMBER: 1992-19920 CAPLUS FULL-text
DOCUMENT NUMBER: 1173-19902 CAPLUS FULL-text
TILE: Rational design of Substituted tripyrrole peptides
TILE: Rational design of Substituted tripyrrole peptides
TILE: Rational design of Substituted tripyrrole peptides
THAT COMPLEX STREET COMPLEX RATIONAL BY BOTH STREET S

DOCUMENT TYPE: LANGUAGE: GRAPHIC IMAGE:

—CONH CONH (CH2) 3NMe2 CONH ACNH-

I, R=(CH2)_{II}N[(CH2)3NMe2]2 II, R=Me

ABSTRACT:

The structures of the compds. (I, n = 3-5) that incorporate (i) the tripyrrole peptide of them incorporate (ii) the tripyrrole peptide of them incorporate prove-binding distance; a compds and (ii) polyamine ligands that extend from the arrived at 05 compds and (ii) polyamine ligands that extend from the arrived at by computer-graphics designing by using the x-ray structure of distance; national composed stability in solution and easier synthesis and purification, which itself of distance at a stability in solution and easier synthesized, and the interaction of distance at a stability in solution and easier synthesized, and the interaction of distance and in the miner groove catability in solution and easier synthesized, and the interaction of distance of poly(did-dC), poly(di

ANSWERS 75 OF 98 CAPLUS. COPPRIGHT 2004 ACS on STN DUPLICATE 57
ACCESSION NUMBER: 1379.5637274 CAPLUS FILL-EXX.
TITLE: SURVERE: 1979.6437274 THE DAW binding properties of natural and surverice of planting independence of the complement of the com

L6 ANSWER 76 OF 98 CAPULS COPYRIGHT 2004 ACS on STH DUPLICATE 58

DOCUMENT NUMBER:

114:21893 CAPULS ELI]—TEXT

DOCUMENT NUMBER:

114:21893 CAPULS ELI]—TEXT

THOMS. THOMS. THOMS. THOMS. THOMS. THE SIA

ANTOR(S):

CORPORATE SOURCE:

DOCUMENT TYPE:

DOCUMENT TYPE:

CORPORATE SOURCE:

DOCUMENT TYPE:

CORPORATE SOURCE:

DOCUMENT TYPE:

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PROPATOR SOURCE:

PROPATOR SOURCE:

PROPATOR SOURCE SPECIAL SOURCE SOURCE AND SOURCE SOURC

Biochemistry (1991), 30(16), 4009-20 CODEN: BICHAW; ISSN: 0006-2960 Journal English

> DOCUMENT TYPE: LANGUAGE:

LANGUAGE SOURCE: 1303.COPYDIGHT 2004 ACS ON STN DUPLICATE 59
DOCUMENT WHOMER: 1303.COPYDIGHT 2004 ACS ON STN DUPLICATE 59
DOCUMENT WHOMER: 1303.MSS17 CAPLUS FULLILLEAK
ANTHOMES): For plant of permits and other polyamines on DNA as prevailed by protoacing and other polyamines on DNA as provided and the plant of permits and other polyamines on DNA as SCHOOL SOURCE: For plant the permit and the plant of permits and the plant of permits and the permit and standing are proved in the polyamines within the minor permit and the permit and some permit and some permit and the permit and suggest fast crant ing of the polyamines of polyamines are similar and signific permit and suggest fast crant ing of the permit and suggest fast crant ing of the

ABSTRACT:

The new photoaffinity derivs. of polyamines have been synthesized by
the reaction of spermine or spermidine with Me 4-azidobenzimidate. The new
compacts where purified chromatog, and characterized by several mentions including
floodood magnetic including and characterized by several mentions including
floodood magnetic including spermine derivative is Allaka-penmine
floodood magnetic including a mixture of Nil- and
themal denaturation exprise with small but not identical effects when
compared with the perent polyamine; spermine. In CD expts.,

ABA-spermine was capable of producing a B - Z transition in
poly(demisdc) as a concentration of 30 unit compared with 5 un required to
produce the same effect with spermine. On the other hand, ANB-spermine
flaxionitrobenzoly) spermine; specific in the other hand, ANB-spermine is a pocent inhibition of ontithin a
poly(demisdc). ABA-spermine is a pocent inhibition of ontithin a
poly(demisdc) as a concentration of 30 unit compared with 5 un required to
produce the same effect with spermine. On the other hand, ANB-spermine to
produce the same effect with spermine is a pocent inhibition of ontithin a
poly(demisdc) and ABA-spermine is a pocent inhibition of ontithin a
poly(demisdc) and ABA-spermine is a pocent inhibition of ontithin a
perviously reported (devigan et al., 1980); the ABA-spermine and ABA-spermidine
determined by exounclease proceeding intervals from the 31 in propred (devigan et al., 1980); the ABA-spermidine and ABA-spermidine
of seach bha strand. This observation rougether with the effect
of spermidine on the CDO fba in uncleosome core particles; implies
intex polyamines alter the helical twist of DAA in
nucleosome core particles. The ABA-spermine are offered as

L6 ANSWER 80 OF 98 CAPLUS COPYRIGH 2004 ACS ON STN DUPLICATE 60
DGCABGN NAWBER: 11477184 CAPLUS Fall-text
TITLE: 11477184 CAPLUS FAL

CODEN BICHAM: ISSN: 0006-2960

LANGAGE:

English

ABSTRACT:

The interaction of a sym. naphthalene diimide with alkylamino

Bubstruchers at each imide position was investigated with the alternating

substructs at each indeed position was investigated with the alternating

sequence; although the guanine-ground in the diimide to both sequences, although the guanine-cytosine binding constant was both sequences, although the guanine-cytosine binding constant was 20-25-foid larger than the adenine-thymine binding equalibrium showed that the dimide dication. Stopped-flow kinetics expts. demonstrated that the diimide of dication. Stopped-flow kinetics expts. demonstrated that the diimide of the stopped dication. Stopped-flow kinetics expts. demonstrated that the diimide of the stopped dissociation kinetics rate consts. (kd) revealed that slopes in log kdv s. logikal.) plots were only apprt as although that slopes in classical dication. Intercalators that have both charged groups in the same groove. These kinetic results supported a threading in each of the result of the diamide complex with that in the rate-determining step of the result of although social dication. Stoped dismide substituent in each of the result of the diamide complex with the same groove, and this was followed by rapid full dissociation of a threading complex, only 1 ion pair was broken; the free side-fain could the diimide. This sequential release of ion pairs made the dissociation of the diimide. This sequential release of ion pairs made classical from threading intercalators. Similar to the a lase of construction from groove-binding modes. Can also distinguishing dissibility from threading intercalators. Similar of the all social side a very clear method for distinguishing dissibility and groove in a lope for disaxical and a very clear method for distinguishing modes. Can also

L6 ANSWER 81 OF 98 C ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

AUTHOR(S):

CAPUS COPYRIGHT 2004 ACS on STW DUPLICATE 61
11990:131987 CAPUS Full—text
112:131987 CAPUS Full—text
112:131987 CAPUS Full—text
112:131987 CAPUS Full—text
112:131987 CAPUS Full—text
Ffect of hon's strength and cartonic DNA affinity
binders on the DNA sequence selective alkylation of
guanine N-Dositions by nitrogen mustands
Hartley, John A.; Forrow, Stephen M.; Souhami, Robert
Pep. Oncol., Univ. Coll., London, MIP 88T, UK
BIOCHEMISTRY (1990), 29(12), 2985-91

CORPORATE SOURCE: SOURCE:

CODEN: BICHAW; ISSN: 0006-2960 Journal English DOCUMENT TYPE:

LG ANSWER 82 OF 98 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. ON STN ACCESSORY MANNER. 1990:175623 BIOSIS FULL-LEXT DOCUMENT NUMBER: PREVENCES 1390:175623 BIOSIS FULL-LEXT DOCUMENT NUMBER: PREVENCES 1390:175623 BIOSIS FULL-LEXT DOCUMENT NUMBER: PREVENCES 1711CE NUMBER: NUM

DOCUMENT TYPE: FILE SEGMENT: LANGUAGE: ENTRY DATE:

ENGLISH Entered STN: 10 Apr 1990 Last Updated on STN: 10 Apr 1990

ABSTRACT:
HAMBE IBP1, isolated from Heat cells, binds to a 10-base—
HAMBE IBP1, isolated from Heat cells, binds to a 10-base—
HAMBE IBP1, isolated from Heat cells, binds to a 10-base—
recognized by the inducible transcription factor NE-48.
Here we describe the interaction of purified EBP1 with the 10-bp repeated sequence that is responsive to signals which activate T cells and which form part of the human immodefriciency virus type 1 (HTV-1) enhance.

Nowase I footprinting indicates that both 10-bp steps on the same molecule located between -80 and -10,5 on the HTV-1 long terminal repeat can be occupied by EBP1, while dimethy, suffere protection and methylation interference experiments indicate which between 100 and 100 on the HTV-1 long terminal repeat can be occupied by EBP1, while dimethyl sufficience which protein and methylation in the presence of EBP1 indicate that interaction of EBP2 with its necessarion site is accompanied by distortion of the DMA double Supporting this conclusion is the observation that the polyamine Step methylation is the conclusion is the observation that the polyamine step on the DMA.

Studies with human T cells (Jurkat) and nucleotide stimulation data suggest that EBP1 is the activated form of NF-kB in these cells.

LG ANSWER 83 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 63
ACCESSION NUMBER: 1390;256049 CAPLUS FULL-EXT
DOCUMENT NUMBER: 113:126049
TITLE: ANTI-ECT OF THE billed find of mitoxantrone, amerantrone and analogs to DNA; relationship with binding mode AUTHOR(S):
CORPORATE SOURCE: Anti-Cancer Drug Design (1990), 5(2), 189-200
DOCUMENT TYPE: ODDER: ANTI-ANDEA; ISSN: 0266-9536
LANGAGE:
LANGAGE: ANTI-CANCER ISSN: 0266-9536
FOR TABLE AND FOR TABLE A

Spectrophotometry, in order to study relationships between structure, kinetic of parameters and bolls, activity variations in the structure of the side chains of parameters and bolls, activity variations in the interest stability of the complexes. Four the side chains of the structure stability of the more stable to the side of the structure of magnitude more stable to stable stability of the more stable to stable stable stability of the more stable stable stability of the more stable st

LG ANSWER 84 OF 98 CAPLUS COPPRIGHT 2004 ACS on STN DUPLICATE 64
DOCAMENT NUMBER: 111:210787
TITLE: 111:210787
TITLE: Sequence specificity and DNA banding for a simple ligand AUTHOR(S): Releastein, Burt G.: Pattabiraman, Nagarajan; Marton, CORPORATE SOURCE: Sch. Med., Univ. California, San Francisco, CA, 94143, SOURCE: Nucleic Acids Research (1989) 17(17), 6883-92
DOCHENT TYPE: DOCHEN SANARHAD; ISSN: 0305-1048
LANGANGE: Register ACID AUTHOR (1989) 17(17), 6883-92
DOCHENT TYPE: BOGING AUTHOR (1989) 17(17), 6883-92

COUNTY TYPE: COURTAL COURTAC C

LG ANSWER 85 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN
ACCESSION NUMBER: 113:90247
TITLE: 113:9027
TITLE: Molecular basis for prentiation of bleomycin-mediated degradation of DNA by Dolyamines. Experimental and medicular mechanical studies. Experimental and medicular mechanical studies. Experimental and medicular mechanical studies. Strekowski, Lucjah; Harden, Donald B.; Wydra, Roman CORPORATE SOURCE: 15 Strekowski, Lucjah; Harden, Donald B.; Wydra, Roman Dep. Chem., Georgia State Univ., Atlanta, CA, 30303, 304NCE: 1000MCH; TYPE: 1000MCH; ISSN: 0952-3499 (1989), 2(4), 158-66 DOCUMENT TYPE: 1001%

DOCUMENT TYPE: COODE: JMORE4; ISSN: 0952-3499

LANGLAGE: Fig. 1 ournal and the bleomytimediated degradation of DNA is stimulated (amplified) by the bleomytimediated degradation of DNA is stimulated (amplified) by the bleomytimediated degradation of the bleomytimediates suggest that the discrete degradation of the major of the major growe of GAGOS; GAGOS; The properties of the major growe of GAGOS; GAGOS; The major was grower and languement of the minor with the care in the properties of the major was growered and languement of the minor with the minor with the care in the care in the grower and languement of the minor without theory studies, but the propositive being in the order 1 < 3. These propositive major was an order of the minor without theory without the minor with the propositive propositive being in the order 1 < 2 = 3. These propositive with the minor without with the minor without the minor with the minor with

L6 ANSWER 86 OF 98 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN ACCESSION NUMBER: 1988:196058 BIOSIS $\overline{\mathrm{Eul}]$ -text

both Z-DWA and Z-RWA in solution These binding of solution crystals. The stress have some similarity to those observed in oil souncelectide crystals. The stress have some similarity to those observed in oil of the helical stress of the control of spermine binding sites on the helical modernate and supported by more measurement of spermine that a subsported by more than the character of spermine containing the crystals owned to spermine-containing for specifies in both the B and Z-forms of spermine-containing for modeling studies. The potential energy of several points of the Z-form was much less your blue that ond to the major upower of the B-form. The presence in the Z-man depth is such spermine only laws both theor, and exptl. Studies indicate that polyamines can the S-form. Specifically recognize Z-helical determinants in solution as well as in crystals.

LG ANSWER 88 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN
DOCCURINT NUMBER: 108:15439 CAPLUS Full-text
DOCKNIT NUMBER: 108:15439 CAPLUS Full-text
DOCKNIT NUMBER: 108:15439 CAPLUS Full-text
DOCKNIT NUMBER: 108:15439 CAPLUS Full-text
TITLE: 108:15439 C

ABSTRACT:

ABSTRACT:

Flow Theat dichroism (LD) and light scattering at 90° was used to study the Whole ABSTRACT:

Flow Theat dichroism (LD) and light scattering at 90° was used to study the condensation of both DNA and calf thymus chromatin induced by spermine. Friamines with extended and chromatin in a similar way. The defamines perfected DNA and chromatin in a similar way. The degree of compaction of the chromatin fibers induced by spermine. Friamines except 2, 2, and Mg4 was identical. The triamine 2, 2 and the diaminess studied do not condense either chromatin or DNA. Such a big difference in the action of the triamines indicates that not only the charge, but also the structure of the polycations are important for their inveractions with DNA and chromatin. The stoichlometry of resistance in the are presumed to the polycations are important for their inversely lamine mols. So DNA helical turn.

Polyamines* are presumed to brind to the exposed sites of core phosphate neutralization by the histones is estimated to be apprex.55%. A mixture of mome- and multivalent cartions affected DNA and chromatin condensation condensation of N. Cothers (1986).

LG ANSWER 89 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 66
ACCESSION NUMBER: 1386-14219 CAPLUS FUIL-FEXT
104-147219 CAPLUS FUIL-FEXT
104

DOCUMENT TYPE: Journal GODEN: BICHAM: ISSN: 0006-2960

LANGALGE: Fight Street Fight

L6 ANSWER 90 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN ACCESSION UNMER: 1985:189197 CAPLUS FUll-text DOCUMET NUMBER: 103:188197

Quantitative correlations of biological activities of decrinowcin analogs and methorrexate derivatives with van der waals volume trachaert v. s. Handa, A.; Gupte, s. p. Bi ria Inst. Technol. Sci. pilani 33931, India Cobs. Arznei mittel-Forschung (1885), 35(7), 1030-3 COBN. ARZNAD; ISSN: 0604-4172 AUTHOR(S): CORPORATE SOURCE: SOURCE: DOCUMENT TYPE: LANGUAGE: GRAPHIC IMAGE: TITLE:

STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

The property of the part of th

LG ANSWER 91 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 67
DOCUMENT NUMBER: 103:84702
TITLE: 103:84702
TITLE: 103:84702
TITLE: 103:84702
AUTHOR(S): 103:84702
AUTHOR(S): 103:84702
AUTHOR(S): 103:84702
BOCUMENT TYPE: 103:84702
DOCUMENT TYPE:

DOCUMENT TYPE: ODDER

DOCUMENT TYPE: The state of the sta

LG ANSWER 92 OF 98 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 68
ACCESSION NUMBER: 1983.35702 CAPLUS FULL-LEXT
DOCUMENT NUMBER: 99.135702
TITLE: Acridine-psorale marines and their interaction with decayribonucleic acid marines and their interaction with a second marines and their interaction acid marines and their interaction acid marines and their interaction acid marines and their interac

DOCUMENT TYPE: CODDSH: BICHAM; ISSN: UNDb-J9bu
LANGAGE:
LANGAGE:
LANGAGE:
Finglish
Finglish
For I which a 9-actidinyl nucleus is linked to a
RSTRACT of novel compds: in which a 9-actidinyl nucleus is linked to a
RSTRACT of nucleus in the 5-or 8 position via polyamines were prepared
RSTRACT of RSTRACT or 8 position via polyamines were prepared
RSTRACT RSTRACT or 8 position with VV light (20-390 mm) were
examined cross inking on irradiation with VV light (20-390 mm) were
examined cross inking and photobinding to DMA.
Whereas the ratio between their protobinding and photobinding to DMA.
400-fold that of I. Compds. in which the linker was attached to the 5-position

in porsales a showed smaller crosslinking and photobinding efficiencies and larger ratios between photobinding and crosslinking than those of psoralens attached in the 8 position. This strongly indicates that the 9-substituents of the acridines are oriented toward true manner proove. Flow 9-substituents of the acridines are oriented toward true in minor groove. Flow 9-substituents of the acridines are obtained that the acridine moiety, whereas the psoralen moiety in case was clearly intercalating. This conclusion was further monories apported by viscometry studies which also strongly indicated moiotrous propriets.

Mestaphase chromosome structure in polyamine (spermine or spermidne) containing buffer as compared to that in control (Tris-C22+) buffer spermidne)-containing buffer as compared to that in control (Tris-C22+) buffer spowed structural alterations as evidenced by Dhase II cleavage patterns. Appeared of chromosomes retarted mith polyamines indicated decreased compared to the control (Laphax, 90 base-pair (bp) periodicity, vs. appr. 117 be periodicity, resp. 1, and microscopic studies indicated a smaller diameter for the created preparation (The decreased accessibility of DAM reflects a higher compaction and more condensed state of DAM in the metaphase chromosome. The polyamine effect, due to a trighter binding concurrent or chromatin as compared to Case binding avidently alters (compacts) known.

L6 ANSWER 94 OF 98 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN ACCESSION NUMBER: 1981-128504 BIOSIS FULL-TEXT DOCUMENT WHOREN: 1981-128504 BIOSIS FULL-TEXT DOCUMENT WHOREN: 1981-128504 BIOSIS FULL-TEXT DOCUMENT WHOREN: AND THE SOURCE: WITH HEXAMINE CORALT III. WIDOM J [Septint author]; BAIDMIN R L CORPORATE SOURCE: DEP BIOCHWI, SCH MED, STANFORD UNIV, STANFORD, CALIF 94305, 100-1781 BIOLOGICA BIOLOGICA

DOCUMENT TYPE: Article

AND SEGURATIONS: Article

AND SEGURATIONS

AND SEG

reaction.

The Kinetics of condensation are slow in the forward direction, in the time range of min to h. and slow as the DNA concentration is increased. Reversal of condensation by Na+ or Mg2+ occurs more rapidly, in s to min, and the transition midpoints are essentially independent of DNA.

At DNA concentrations below 1 µW-phosphate, the kinetics of condensation and of de-condensation are comparable in rate.

Intermolecular ond contacts may compete with, and slow down, intermolecular condensation, equilibrium data for transition indonits are obtained in either life, equilibrium data for transition indonits are obtained in either life, forward or reverse direction at sufficiently low is reached in either life, said pipe. DNA concentrations, equilibrium is reached in the reverse but not in the forward direction, equilibrium phase diagrams for condensation plots of [024 (H4)5] vs. log (ka_1) or phase diagrams for condensation plots of log [024 (H4)5] vs. log (ka_1) or log [024-4] at the transition midpoint) have been obtained from studies of the condensation by hat or H3. when either Co3+ (H4)5, spermidine (3+) or spermine (4+) is used to induce condensation of DNA charge has been neutralized, as calculated by Manning's theory.

Spermine (4+) is used to induce condensation of DNA charge has been neutralized, as calculated by Manning's theory.

Wanditional results are presented, which bear on the problem of toroidal condensation occurs more readily at high temperatures.

Condensation occurs more readily at high temperatures.

Restriction fragments as short as 400 base-pairs form appearance to the intramolecular condensates formed by intermolecular condensation, which are similar in diameter and DNA.

A thermodin, anal. of the bending free energy of DNA, initiated previously, was extended. The lonic-strength dependence of the persistence proviously, was extended. The lonic-strength dependence of the persistence length of DNA in adveols RacT could be understood by postulating: (1) a right-root 60 bear-pair unit and (2) a mag. contribution from monelectrostatic sources to the bending free energy of this unit. On electrostatic sources to the bending free energy of this unit. On electrostatic sources to the bending free energy of this unit on electrostatic sources to the bending free energy of this validity to radii of curvature. And the lonic-strength dependence of the rate of denaturation of everyaure. Although this limit, the steeply rising repulsive energy of tightly packed atoms dominates the bending free energy. Therefore sponding on charge mettralisation proceeds up to, but not beyond, this barrier to curvature. Doughnut forms of DNA induced by the event of cationic spermidine, spermide or mixts of Mg2+ and ***polyamines*** possessed maximum curvatures, corresponding to the radius of the hole in the middle, in the range 1/150-1/200 A. LG ANSWER 95 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 69
DOCUMENT NUMBER: 1980:71278
TITLE: Thermodynamic stability theory for DNA doughnut shapes induced by charge neutralization anduced by charge neutralization anduced by charge neutralization of them. Amaning, Gerald 5.

DOCUMENT TYPE: DOCUMENT TYPE: GOODEL: BIPMAA; ISSN: 0006-3525
DOCUMENT TYPE: EMPLOYEE: BIPMAA; ISSN: 0006-3525
LINGALGE: EMGLISH

LG ANSWER 96 OF 98 CAPLUS COPYRIGHT 2004 ACS ON STN DUPLICATE 70
ACCESSION NUMBER: 3777-97870 CAPLUS E<u>ulli-rext</u>
DOCUMENT. A merchanism for the entrapment of DNA at an ari-water interface interfa DOCUMENT TYPE: LANGUAGE: ABSTRACT:

Addition of the intercalating dye quinacrine to a low-ionic-strength addition of DNA in quantities sufficient to saturate the high affinity sites solution of DNA in quantities sufficient to saturate the high affinity sites in the DNA results in the accumulation of the DNA at the high affinity sites in the DNA results in the Solution of DNA to universated C-coated electron microscope grids touched to the solution of DNA to universated C-coated electron microscope grids touched to the solution surface. Other intercalating dyes can also bring about this entrapment, if they possess a side arm large enough to occupy one of the DNA proves when the dye is intercalated into the DNA. The extrasion and unwinding of the DNA helix brought about by the will be called the DNA minor growe but that has an on requirements for the entrapment process. Spendidne, a simple polyamine that will be entrapment of the DNA minor growe but that has no intercalating chromophore, also causes this entrapment. Even in the lofs surface entrapment. A model for the entrapment of DNA are the DNA minor growes of the air-watter interface is proposed in which 1 (or both) of the hydrophobic growes of the DNA becomes a surface-active agent as a consequence of the association of various ligands and charge neutralization.

Absilist, it mutation may occur as the result of a gap in one of the two chains of a Mox mol. at or near a region of a repeating set to bases. There may then be a mispaining of bases at the repeating set of bases. The synthen be a mispaining of bases at the repeating set of bases. The synthen is a mispaining of bases at the repeating sequence, and a new synthem to a mispaining the gap with an addition of deletion of a base or bases. The frequency of frameshif the mutation is expected to be highest in longer stretches of identical bases. A particulal mechanism is proposed for frameshif the mutations in page 14. It is also proposed that acridines intercalated between base pairs in the reponse of these regions and thereby increase the probability of synthesis occurring before the regions melt our. Profiavine and similar acridines are highly mutagen with in page 14 but are not mutagenic in salf-mustand or polyamisms; it is suggested that the mechanism of mutagenesis in bacteria and other organisms; it is suggested that the mechanism of mutagenesis in bacteria may be synthesis would occur at the site of a 4, except mutagen-induced break. 22 references. 0* FILE CAPLUS SET DEFAIL ON PERM SEA (DNA OR ?DNA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT?))* FILE CAPLUS SEA (DNA OR DSDNA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT? SEA (DNA OR ?DNA OR RNA) (P) (INTERCALAT? OR BIND? OR INHIBIT?) LE ANSWER 98 OF 98 BIOLIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN ACCESSION NUMBER: 1998:485627 POSTS EALL-TEXT DOCUMENT NUMBER: 1998:485627 POSTS EALL-TEXT DOCUMENT NUMBER: 1998:58 POSTS EALL-TEXT POSTS POSTS EALL-TEXT POSTS Life ANSWERS 97 of 98 CAPLUS. CORPUSED ANSWERS.
ACCESSION NUMBER: 67,609010 CAPLUS FULL-EXXI
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CONTRACT NUMBER: 67,609010 CAPLUS FULL-EXXI
AUTHOR(S): Newton Number: 6609999 OAKTA; TerrZaghi, Eric; CORPORATE SOURCE: Universely foregone to Name of Contract Number: 67,619099 OACHAET TYPE: OACHAET SOURCE: 000EN; CAPLUS FULL NUMBER: 67,61909 OACHAET TYPE: DATE OF CONTRACT SOURCE: 67,61900 OACHAET TYPE: CAPLUS FULL NUMBER: CAPLUS FULL NUMB Biopolymers, (Sept. 28, 1997 (1998)) vol. 44, No. 4, pp. 232-334, print.
2024: 3234 print.
CODEN: BIOPOLY. ISSN: 0006-3525.
General Review; (Literature Review)
English
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Last Updated on SIN: 5 Nov 1998 INDEX 'CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 08:54:59 ON 09 JUN 2004 FILE 'CAPLUS, BIOSIS, EMBASE, SCISEARCH' ENTERED AT 08:54:42 ON 09 JUN 2004 ABSTRACT:
Last Updated on SIN: 3 NOV 1998
Sequence—specific polyamides that bind in the minor management of DNA amides that bind in the minor marginous—to DNA amides that candidates for antibiotics, career chemotherapeutrics, and transcriptional faragenists.
This paper reviews the progress of structure—based design of minor of netropism with DNA, to the effective linked polyamides study.
Theory of polyamide specificity is also reviewed, introducing a theory of polyamide specificity is also reviewed, introducing a sequence within a genome of competing sequences. (FILE 'HOME' ENTERED AT 08:49:08 ON 09 JUN 2004) d his full DOCUMENT TYPE: LANGUAGE: ABSTRACT: DOCUMENT TYPE: LANGUAGE: ENTRY DATE: SOURCE:

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